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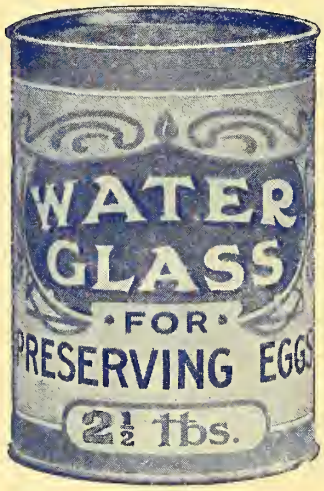

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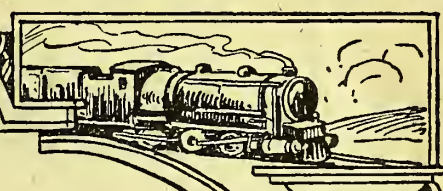

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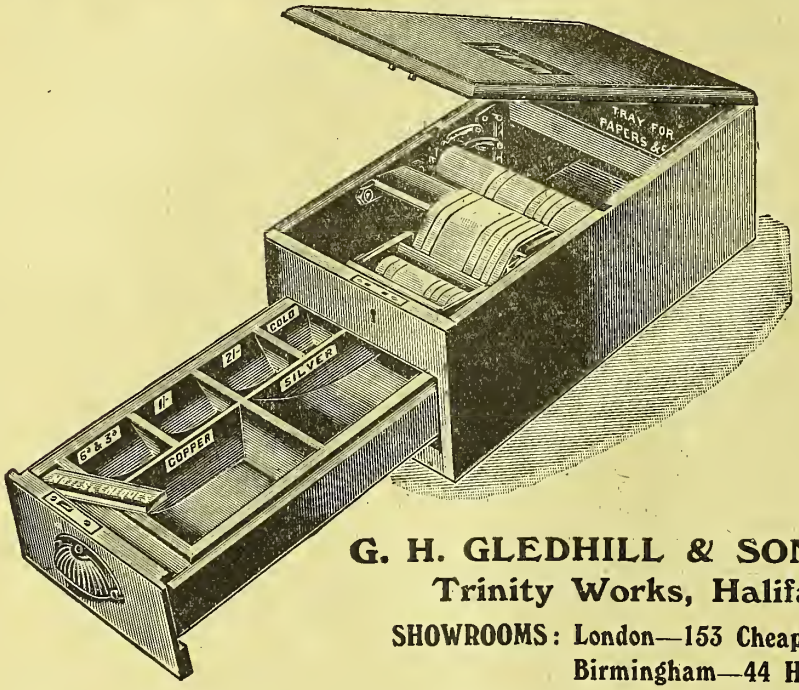

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Signature .....

PRICES OF KER-NAK: 1/3 size, **12/6** doz.; 3/- size, **28/-** doz. (Minimum Prices Face Value)

The "Cartwright" Showcards and Display Boxes are a by-word in Modern Pharmacy. They make Window and Counter Dressing easy, attractive and profitable.

BLOOD PURIFYING TABLETS.

A useful Spring Medicine. 50 cc. Tablets, containing Calc. Sulph., Sulph. and Sarsaparilla packed in bottles. Display boxes and show-matter supplied with all orders.

This size retails at 7½d.

per 48/- gross.

3 dozen at 4/3 per dozen.

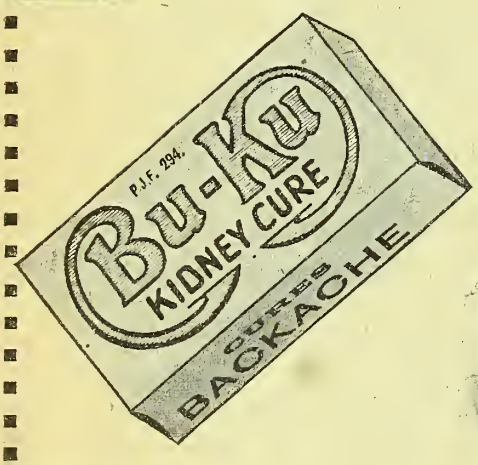
Also supplied in bottles of 100 tablets to retail at 1/-, costing 6/3 per dozen.

SHAMPOO POWDERS.

A delicately perfumed powder which gives an abundant lather and leaves the hair soft and glossy. This is a line that is always a seller, and we have been able to reduce the price to

per 15/- gross.

Retail price now 2½d. per packet. Attractive Counter Showboxes supplied as illustrated.



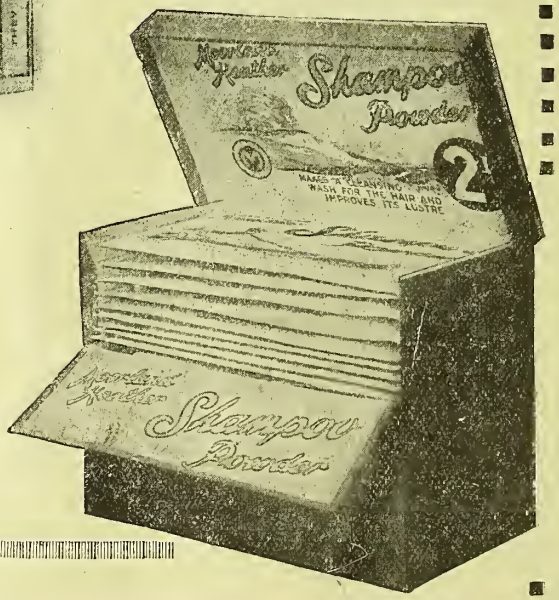
KIDNEY TABLETS.

About this time of the year there is a big demand for Kidney Tablets, and a good window display should be made. We have a nice assortment of designs, three of which we illustrate; all are good sellers, and attractive show-matter is included with all orders.

Retail price 9½d.

per 54/- gross.

3 dozen at 4/9 per dozen.



HAVE YOU HAD OUR PRICE LIST?

W. B. Cartwright, Ltd.

Rawdon near Leeds.

Maw's Page

NUMBER 391
APRIL 12, 1919

S. MAW, SON & SONS, LTD • 7-12, ALDERSGATE ST. LONDON, E.C.1.

Trains Permitting!

The time-honoured ritual of taking a holiday is once more looming on the horizon. It is a typical British custom to which we most rightly cling, that we may creep away from the worries and problems of business for a few golden days—generally to return to those same worries and problems to find that we can tackle them and overcome them with greater ease and confidence, thanks to the magic tonic of holiday-time.

* * * *

We shall go again to the seaside; to renew acquaintance with all the simple delights which the seaside has to give us. We shall find Pierrot with gold stripes, the golf caddie with chevrons, and the landlady with a bill. We shall listen to the band and the waves, and the shouts aboard the "Skylark." . . . We shall go again to the country, to penetrate the silent grandeurs of the hills; to the secluded spot, fragrant with wild thyme, where we know we shall find the old white cow ruminating over the problem in Euclid set in a red triangle as a warning to motorists.

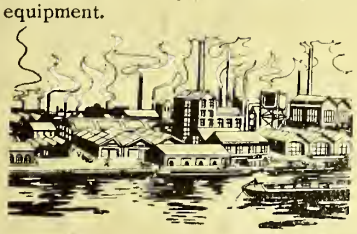
* * * *

For five years war has closed to the majority of us these primitive but essential delights. Now we can take our children where our forefathers trod, although our forefathers would tell us that the places have greatly altered since their days. But the sunshine and air, the seashore and valley, remain our unchanged heritage, the real fruits of victory, greater to us individually than all the Resolutions of the Paris Conference.

* * * *

So it behoves us to prepare for the more prosaic side of the Holiday season. Depend upon it, the House of Maw is planning to worthily uphold the expectations which you have placed upon its resources and equipment.

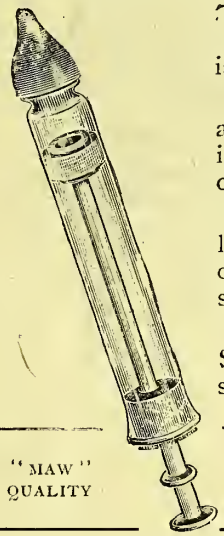
Capsule



DEMONSTRATE WHILE YOU SELL! USE A PAIR OF OUR SHEFFIELD-MADE SCISSORS BEHIND YOUR COUNTER. YOU'LL FIND THEM USEFUL, AND CUSTOMERS INTERESTED, IF YOU POINT OUT TO THEM THEIR STERLING QUALITIES.

3/9 PER PAIR. 44/- DOZ. PAIRS. THREE DOZEN PAIRS, 43/- DOZ. REMARKABLE VALUE FOR BRITISH-MADE CUTLERY.

THE URETHRAL SYRINGE WITH THE INDIA-RUBBER NOZZLE



THE present demand for a good URETHRAL SYRINGE is enormous.

This pattern is fitted with a *soft* india-rubber nozzle which in itself is a distinct advantage over other designs.

The medical profession and leading institutions all over the country are recommending this syringe.

Each Maw's Glass Urethral Syringe is strongly made and supplied in a cardboard box.

"MAW" QUALITY

Prices are as follows:

¼ oz.	½ oz.	1 oz.	2 oz.
9/6	10/6	13/-	21/6 doz.

A SOOTHER-SELLING SECRET.

Two weeks ago in "Maw's Page" we talked to you about soother-sense. We pointed out the selling advantages of a soother put up in a sealed dust-proof envelope. *This is just a reminder*—a reminder that

MAW'S "EUGENIC" SOOTHER

is the line referred to, with its pure transparent rubber teat set in bone mount with cord, that is so good to look at, and so good to sell.

We help you with the free display card sent with initial orders—but, the soother's the thing!

Make the "Eugenic" a National line for National Baby Week.

PRICE 5/6 DOZ.

Items:

GOOD NEWS SET IN BRIEF FOR THE BUSY PHARMACIST.

"Excellent value" aptly describes our shoulder braces. Splendid quality elastic webbing, strong metal buckles and leather loops. Price 5/9 each.

• • •

Customers who distrust hair lotions backed up by extravagant claims, will have confidence in Maw's Jaborandi and Cantharides Hair Tonic. 13/3 dozen. Retail 1/9 bottle.

• • •

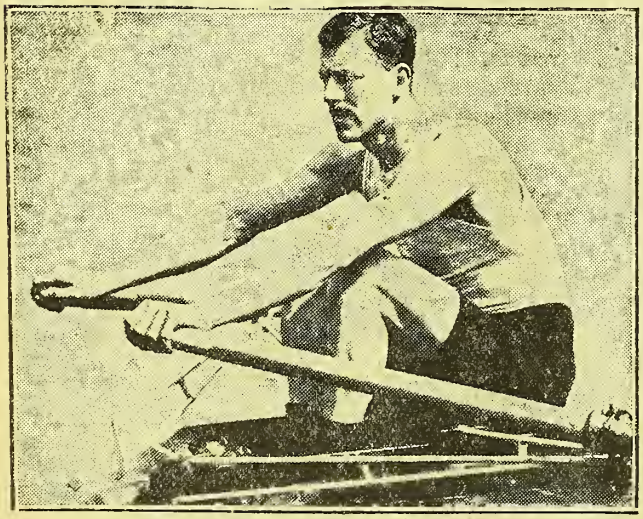
"Parex" Feeding Cup is the latest invalid requisite, no spout or crevice for the harbouring of dirt; every portion can be thoroughly sterilised. Made in earthenware in two sizes. 10/6 and 14/9 per dozen.

• • •

Quite a remunerative business can be done with Maw's Atlas Foot Supports. They are designed, made and shaped in such a way to act as a support to the portions of the foot which drop to abnormal position when weight is thrown upon them, or to protect the weak point of the foot where most work is required. These appliances can be worn continuously in nearly any regular type boot or shoe.

Maw's Atlas Foot Support is put up in boxes in assorted sizes. Price 4/6 pair.

ATHLETES HAVE TO USE THEM



ERNEST BARRY,
Holder of the World's Sculling Championship, former Sergeant-Instructor of Gymnastics in the Army, writes :—

ALKIA SALTRATES.

A widely advertised product, which is the most efficient saline on the market, and best value for the money. Being highly concentrated, only very small doses are necessary, and there is no trace of unpleasant, salty taste. Protected on P.A.T.A. at the full face value of 2/9 a large bottle.

"I have purchased a small package of Reudel Bath Saltrates and I can honestly state that for sprains or strains there is nothing to equal this. In the Service I have recommended it to men under my charge for all manner of skin blemishes, foot soreness, blisters, corns, and other aches and pains. The results were always satisfactory. Alkia Saltrates was another simple compound I struck and found very beneficial. A little of this in hot water or in tea each morning not only cleanses all impurities from the stomach or intestines, but it clears the brain and ensures absolute physical fitness."

Ernest Barry

JIMMY WILDE, World's Champion Boxer :—"I am glad to testify to the part your Saltrates fulfill during my training periods. I am never without both and never will be."

Jimmy Wilde

BOMBARDIER BILLY WELLS, the popular Boxer :—"While a physical instructor in the army, I found both Alkia and Reudel to be almost indispensable for correcting and preventing the ills and pains to which Tommies are subject. Personally, I take Alkia regularly, and Reudel is always added to my bath."

Billy Wells

JIM SULLIVAN, ex Middle-Weight Champion and former Army Physical Trainer :—"Alkia soon 'knocks out' liver, kidney, uric acid or similar disorder. Reudel baths stop any aches or pains, foot troubles, etc., in no time. Your ad. writer is too conservative."

Jim Sullivan

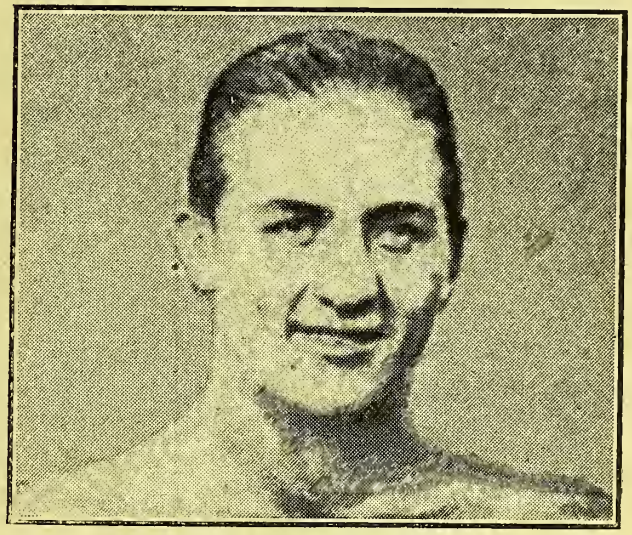
YOUNG HEALEY, Featherweight :—"I strongly advise all professional boxers to use both Alkia Saltrates and Reudel Bath Saltrates, as I do myself, regularly."

Jenny Healy

EVERYONE SHOULD USE THEM

REUDEL BATH SALTRATES.

The most fragrant, refreshing, beneficial and all-round satisfactory preparation for the bath or for general toilet purposes. Especially recommended in cases of foot trouble or rheumatic pains, stiffness, etc. Now being extensively advertised. Protected on P.A.T.A. at the full face value of 1/9 and 2/9.



GEORGES CARPENTIER,
Heavy-Weight Champion of Europe.

"Alkia is the best system-cleansing and tonic drink for anyone who suffers or fears any form of ill health. Reudel banishes rheumatic or muscular pains and aches within ten minutes.
I use both preparations and shall never be without them."

G. Carpentier

W. G. GEORGE, World's Champion Runner:—"I have used Alkia and Reudel with remarkable good results. They are wonderful products, as everyone to whom I have recommended them fully agrees."

W. G. George

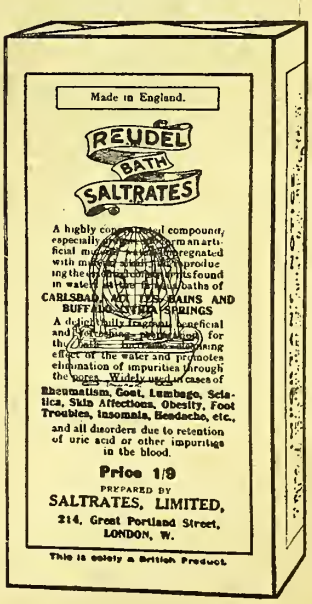
JACK DONALDSON, World's Champion Sprinter:—"Alkia has no equal for rheumatic and uric acid disorders of all kinds. One Reudel bath will keep the joints more supple than a dozen Turkish or vapour baths. I could not do without them both."

J. Donaldson.

We have hundreds of similar letters which lack of space prevents our reprinting here.

In our files we have numerous other highly commendatory letters received from the champions and leaders of practically every branch of sport. They will be published from time to time in other series of advertisements.

REUDEL BATH SALTRATES.



P.A.T.A. NOTICE.

113 Temple Chambers, E.C. 4.

MEMBERSHIP.

The Council of the P.A.T.A. strongly urge non-members to join. The subscription is **7/6** per annum per shop. The amount of benefit per shop per annum in consequence of the work of the Association is enormously greater than that, and every Chemist in business should be a member. P.O.'s and cheques (crossed) to be addressed to the Secretary at above address.

We Print You Prosper.

We cater especially for Chemists, and there is nothing that they require but what we are prepared to quote for.

Folding Boxes and Envelopes a Speciality.

TRADE MARKS AND PATENTS TAKEN OUT FOR CUSTOMERS.

ALF. HARRISON & SONS,

Chemists' Printers,

224 BURLEY ROAD, LEEDS.

Tels.: "Ideas Leeds." Phone: 26674.

The MARK *of*

QUALITY and RELIABILITY

Registered Trade Mark.

To our many Friends in the Optical Trade.

OUR best thanks are extended to you for your kind indulgence during the difficult days now happily passing away.

We fully realise what inconveniences you have so cheerfully put up with, owing to the unavoidable delays with the return of your Rxs. and other difficulties, resulting from war-time conditions, and sincerely thank you.

We are glad to be able to inform you that we are now up-to-date with arrears of work, and can offer you a satisfactory Rx. service—if not quite up to our pre-war standard, it is fast approaching that high degree of excellence.

We are always at your command, and looking forward to your continual and increasing support.

Elliott Optical Coy.

Propr.: GUY E. DRUIFF.

104 & 105 GREAT SAFFRON HILL, LONDON, E.C.1.

The last Straw !

A 3d. packet of Ayrton's Straw Hat Cleanser will make last year's hat like new.

Ayrton's Straw Hat Cleanser is packed in a bright and attractive style, and the card is worded to interest the reader in his—or her—last year's straw.

Ayrton's Straw Hat Cleanser is an efficient, non-poisonous preparation with simple directions befitting the simple cleansing process.

PRICES are :

Retail - - - - - 3d. per packet

Wholesale - 1/9 per dozen ; 20/- per gross

Ayrton's
for Drugs
Sundries
Packed Goods
Tablets and
ideas !

AYRTON, SAUNDERS & CO. LTD.
LIVERPOOL

"I have used your Tablets with the most perfect and satisfactory results. The patients I treated with your tablets did not complain of either sickness or depression."

—L.R.C.P., L.R.C.S.

"I find my customers prefer your Aspirin Tablets to any other make. Therapeutically they are excellent and they are compressed just to the right point."

—A Pharmacist.

"The sample of Acid Acetylsalicylic is certainly as good as Bayer's. I have seen a lot of samples lately, and all have more or less free salicylic acid and the acetic odour predominant."—M.P.S.

"Your Sodium Salicylate is certainly much superior to any other present British manufacture that I have used."

—W. & C.

THE MARK OF HIGH QUALITY

The Hall-Mark of Quality.

The word Aspirin is a voided trade mark which was a synonym for Acetyl-Salicylic Acid. Although Acetyl-Salicylic Acid has an official standard in the British Pharmacopœia which allows a difference of 2° in melting point, there is, and has been, a quantity of Aspirin upon the market which is not B.P. in standard. Pharmacists should watch this point. The busy man specifies M. & J. Brand—saves time of testing and has the assurance that M. & J. means super B.P.

We use nothing but our super Acetyl-Salicylic Acid for our Tablets, each of which contains 5 grains. They are free from talc, boric acid, etc.

In bottles of 25 Tablets, 5/6 per doz. net.
" 100 " 16/9 "
Bulk, 1,000 ... 11/-
Orders 40/- net and over, Carriage Paid.

MENLEY & JAMES, *Manufacturing Chemists,*
'MENLEY HOUSE,' Farringdon Rd., LONDON, E.C.1

"I have compared M. & J. Aspirin with other makes, but get quicker physiological action from M. & J. than with any other brand."

—M.B., B.S.

"I have a high opinion of M. & J. Chemicals. Aspirin M. & J. does not cause pyrosis that other makes have done."

—M.B., C.M.

"A well-known firm report that they tested six different brands of Aspirin Tablets and that the M. & J. Brand had come out on top."

—H.E.C.O.

"I find your Acid Acetylsal. is the nicest make of that article that I have had so far."

—Ph.C.

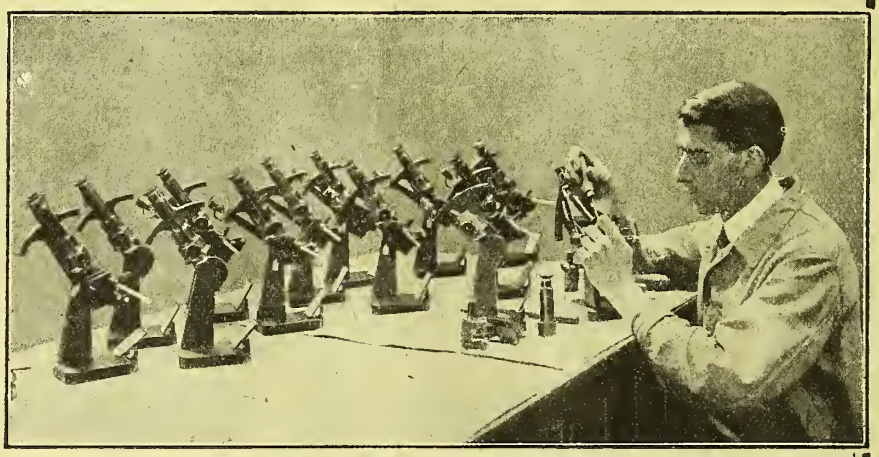
ONE HUNDRED YEARS

OIL OF CLOVES in 1814
NICOTINE - - - in 1918

Since the first industrial application of refractometry by Wollaston in 1814, an enormous number and variety of pharmaceutical and other substances have been brought under this mode of control.

The Abbe Refractometer

made by ADAM HILGER, Ltd., is, by reason of its accuracy and rapidity in use for such tests, an indispensable instrument for every control or research laboratory.



Adjusting Abbe Refractometers before sending out.

Delivery in Four Weeks from receipt of order. Descriptive Booklet post free on application to Department H.

ADAM HILGER, Ltd., 75a Camden Rd., LONDON, N.W. 1.

Telephone: North 1677 and 1678. Telegrams: "Sphericity, Phone, London."

"Union does everything when it is perfect; it satisfies desire, it simplifies needs, it foresees the wishes of the imagination; it is an aisle always open, and becomes a constant fortune." De Senancour.

UNION which provides an ever open aisle, which satisfies desires, simplifies needs, anticipates the wishes of the imagination, and helps towards a better fortune, is the

Union of the Pharmacists—Ucal

Become a Ucalite and you at once are in Union—strong, profitable, and desirable union, with 2,000 brother Pharmacists throughout the country.

These Ucalites are breaking away from the thraldom of the Manufacturer, are reaping daily the benefits of co-operation, individuality, better service with better goods—benefits which—expressed in results, mean a better profit.

To be a Ucalite is to work for the Ucal cause—to realize that every other member is working for you—to understand that it is by all pulling together that the maximum benefit is obtained.

There are many advantages in being a Ucalite—may be more even than we know of. We believe it is the best thing for Pharmacy that has ever happened. You will be able to judge when you know more of it.

Pharmacists are being accepted as fast as arrangements can be made to supply their needs. New Factories are being built as rapidly as possible to deal with the ever increasing flow of business. Is your name on the Ucal waiting list yet?

Harold Miller, UCAL, Cheltenham Spa.

SAVE 3/- PER GALLON

BY BUYING

GUARANTEED GENUINE

NEWFOUNDLAND NON-FREEZING MEDICINAL COD LIVER OIL

OF NEW SEASON'S MAKE.

Highest possible quality in smell, taste and colour, comparing most favourably with the finest Norwegian. Manufactured from the finest fresh Cod Liver on same day as fish caught.

WHOLESALE ONLY.

Kindly write for sample to

JOB BROS., Manufacturers, Tower Building, LIVERPOOL.

Telegraphic Address: "JOB LIVERPOOL." Tel. 1039 CENTRAL.

And of ST. JOHN'S, N.F. Established 1780.

DO YOU KNOW—

That thousands of firms have discarded the bound-book Ledger and adopted the **Loose-Leaf Ledger?**

That *not one* firm has reverted to the old method.

That there is a reason why!

Read our Booklet, "Hints on Keeping Ledger Accounts," sent **FREE** *on request.*

Complete Loose-Leaf Outfits from 9/6 to £6 6s.

Moore's Modern Methods, Ltd. (Room No. 7) **12 St. Bride Street, London, E.C. 4.**

STOVAINE

THE LEAST TOXIC OF LOCAL ANÆSTHETICS

USED IN THE SAME WAY AND AS EFFICACIOUS AS COCAINE

Does not create a habit and does not give rise to headaches, nausea, vertigo or syncope. :: :: *Literature on demand.*

NO HOME OFFICE LICENSE REQUIRED

Cheaper than Novocain and Benzocain and obtainable promptly in practically unlimited quantities from the manufacturers:

LES ETABLISSEMENTS POULENC FRÈRES

92, RUE VIEILLE DU TEMPLE, PARIS.

SCREW CAPS *in* ALL METALS

EXACT ATTENTION *to* CUSTOMERS' IDEAS *and* REQUIREMENTS IS A FEATURE OF OUR SERVICE

NAPPER & DAVENPORT

7-11 St George's Place BIRMINGHAM

NICKELLED ZINC

TUBE CLIPS

Manufacturers of METAL CONTAINERS *and* FITTINGS *for Manufacturers of* TOILET *and* SIMILAR PREPARATIONS

SMALL BOXES *in* ALL METALS

ENQUIRIES RELATING *to* FUTURE BUSINESS *will* RECEIVE CAREFUL CONSIDERATION *and* ATTENTION *although* CONDITIONS TEND *to* LIMIT PRODUCTION *at the* MOMENT

DAIRY SUNDRIES, LIMITED

MANUFACTURERS OF

WAXED WOOD PULP DISCS AND RINGS

FOR ALL CAPS AND LIDS.

Impervious to moisture. Better, cheaper and cleaner than cork or rubber for sealing Pomades, Malt Extracts, etc. etc. Supplied in any size, shape or thickness. IMMEDIATE DELIVERY

WRITE OR PHONE for FREE SAMPLES.

DAIRY SUNDRIES, LIMITED,
Imperial Works, Knotts Green, Leyton, LONDON, E. 10.

Managing Director—
F. WALENN.
Phone: Walthamstow 188.

APOLOGY.

I, the undersigned, JAMES JOHNSTONE, of High St., Gorton, Manchester, carrying on business as an Oil Boiler. Paint & Varnish Manufacturer, HEREBY APOLOGISE to Messrs. W. H. Holmes & Sons, of Newcastle-upon-Tyne, for having infringed their rights by the unauthorised use by me of their registered Trade Word "Distemperette" on labels and other documents issed by me in my business, AND I HEREBY UNDERTAKE to refrain from any further use of the said Trade Word.

Dated this 25th day of March, 1919. **JAMES JOHNSTONE.**

Signed by the said James Johnstone in the presence of Edward R. Murray, Chartered Accountant's Clerk, 61 Brown Street, Manchester

CASTLE BRAND "DISTEMPERETTE"
is manufactured solely by W. H. Holmes & Sons Newcastle-upon-Tyne, and 17 Soho Square London W.1, and the Castle Brand Co., Newcastl -on-Tyne, and London.
Price and terms on application.

DISPENSING BOTTLES & PHIALS.

CLEAR BLUE TINTED, plain or graduated.
3 and 4 ounce. 6 and 8 ounce.
12 ounce.
WHITE PHIALS, plain or teaspoons.
½ ounce. 1½ ounce.
1 " 2 "
BLUE LOTION BOTTLES, all sizes.
Lowest Market Prices Charged.

CORKS. Superior Quality. No advance in price.
6 and 8 ounce ... ... **1s.** per gross, in 6 gross bags.
Vials ... ... **10d.** per gross, in 3 gross bags.
Delivered free within 7 miles, and to certain stations. Particulars on application.

I. ISAACS & CO., Glass Bottle Manufacturers,
106 Midland Road, St. Pancras, London, N.W. 1,
or ISLINGTON BOTTLE COMPANY,
7 New Inn Yard, Tottenham Court Road, London, W. 1.
Orders sent to either establishment have attention.
Established 100 Years.
Bankers: London County and Westminster Bank, Bloomsbury Branch.

MECHANICAL DENTISTRY

Freeman Bros.

WITHAM - HULL.

'Phone—CENTRAL 1290.
NO BRANCHES

High-Class Work at Moderate Prices

Reliable Staff under Personal Supervision.
Punctuality Guaranteed, & Best Materials.

PURE CHEMICALS for PHOTOGRAPHY

AMIDOL . . .	1-lb. tin	21/-,	7 @	20/6
HYDROKINONE .	lb. pcls.	16/6	,,	16/4
PARAMIDOPHENOL	1-lb. tin	17/6	,,	17/3
PYROGALLIC . Cryst.	,,	15/-	,,	14/9
PYROGALLIC . Resub.	,,	18/-	,,	17/9

Acid Citric, Alum, Ammon. Bromide, Ammon. Sulphocyanide, Ferr. Ammon. Cit., Pot. Bromide, Pot. Ferricyanide, Pot. Citrate, Pot. Metabisulph., Pot. Oxalate, Soda Bromide, Soda Carb., Soda Hypo., Soda Sulphide, Soda Sulphite, etc. etc.

At low prices. Packed in bulk or bottles

CHAS. ZIMMERMANN & CO.
(Photographic) LTD.
13 BARTLETT'S BUILDINGS, LONDON, E.C. 4
Monthly List mailed on request.

TIDMAN'S SEA SALT

GOOD PROFITS. PROTECTED BY P.A.T.A.

Two Gross "**PENNY**" Packets sold for **30/-** show over 50% Profit on purchase price **21/-**, less 2½% delivered.

PRICE LIST.

	Advertised Price Per doz.	Minimum Retail. Per doz.	Wholesale Per gross.
"PENNY" PACKETS (12 in box)	**1/6**	**1/3**	**10/6**
Twopenny Packets (12 in box) ...	**2/-**	**2/-**	**19/-**
	Each.	Each.	Per doz.
Boxes, about 1½ lb.	**4d.**	**4d.**	**3/4**
,, ,, 3½ ,, ...	**8d.**	**8d.**	**6/8**
,, ,, 7 ,, ...	**1/2**	**1/2**	**11/6**
,, ,, 14 ,, ...	**2/-**	**2/-**	**20/-**

Four 7-lb. Boxes CARRIAGE PAID for 4/-
Six 7-lb. Boxes CARRIAGE PAID at 11/6 per doz.
Assorted Orders to value of 10/-, CARRIAGE PAID, any of above sizes.

		Each.	Each.	Each.
No stock to hold	**Bags** of 28 lb.	**3/6**	**3/6**	**3/-**
	,, 56 ,, ...	**6/6**	**6/6**	**5/6**
	,, 1 cwt.	**12/-**	**12/-**	**10/-**

Carriage Paid.

2½% Discount for Cash on all orders of 20/- and upwards.
Packing Cases extra and returnable. Half value allowed if not returned.

TIDMAN & SON, Ltd., London, E. (Members of P.A.T.A.)

HAYWARD'S

Eureka

WEED KILLER

"EUREKATINE" FUMIGANT. INSECTICIDES. LAWN SAND. WORM KILLER AND ALL GARDEN CHEMICALS.

EASIEST TO SELL. STRONGEST & SAFEST PACKING.
PROTECTED PRICES. SALES THROUGH AGENTS.

Please write for Advertising Particulars, Window Displays, &c. **TOMLINSON & HAYWARD, LTD., LINCOLN.**

HAYWARD'S SHEEP DIPS

Approved by the Board of Agriculture, and used in all Sheep Countries.

HAYWARD'S

Yellow Paste Dip.
Combined Glycerine Dip.
Liquid Dips.
Non-Poisonous Paste and Cake Dips.

Attractively packed with Agent's own name if desired.

HAYWARD'S

Foot Rot Paste and Liquid.
Sheep Marking Paints.
Lung Worm Specific.
Warble Fly Smear.
Luddington's Oils
Condition Powders, and
Veterinary Medicines.

GOOD SELLERS! GOOD PROFITS! ATTRACTIVE ADVERTISING MATTER!

Write for Particulars to Sole Manufacturers **TOMLINSON & HAYWARD, Ltd., LINCOLN.**

KUR-MANGE

THE CERTAIN REMEDY FOR PARASITIC MANGE IN HORSES, CATTLE, DOGS, &c.

BOXES OF 1 doz. 1/6 packets, 12/- per box. On P.A.T.A. list.

McDOUGALL BROS., Ltd., 66/68 PORT STREET, MANCHESTER.

BLATTIS

Absolutely exterminates Cockroaches without any trouble.
It is a scientific remedy invented and guaranteed by E. HOWARTH, F.Z.S.
Retail Prices, in tins, 14/-, 27/-, and 54/- per dozen.
Liberal Trade Discounts.
HOWARTHS, 471 Creuksmoor, SHEFFIELD.

FERTILISERS

Insecticides and all Horticultural Specialities and Sundries.

Catalogue on application

HUNTER & GOW, LTD., 200 Thomas Street, LIVERPOOL.
Manufacturers and Wholesale Suppliers of everything for the Garden, Allotment and Greenhouse, such as "Abol," "Vaporite," Twines, Sticks, Labels, Clays, Nicoticide, etc.

EUCALYPTOL (CERNOL),

B.P. STANDARD.

PEPPERMINT-KETONE

AND

All Grades Eucalyptus Oils

Large Stocks always on hand.

GILLARD GORDON, LTD.

SYDNEY - AUSTRALIA.

Largest Actual Distillers of Eucalyptus Oil in Australia.

Cable ... ... "Gillard Gordon, Sydney."

A 100% Line

that mothers buy at sight.

ANTHONY LEIGHTON
Best Shampoo for Children.
Two Shampoos in each packet.
ADVERTISED EVERYWHERE.
100% April Offer.

Up to April 18, your Wholesaler will supply 1½ doz. Bonus free with every half-gross on condition that you show the attractive display boxes for at least one week during April.

YOU SELL!
7½ doz. Anthony Leighton Best Shampoo at 6d. £2 5 0
YOU BUY
7½ doz. Anthony Leighton Best Shampoo at 45/- gross £1 2 6
YOU GET £1 2 6

100% Profit in a well-advertised P.A.T.A. Line.
NEEDS ONLY SHOWING TO SELL.
P.A.T.A., 6d. per packet.
Price 45/ per gross (6 doz. boxes).

Triple Extract of Almate

(NON-POISONOUS)

For use after Anthony Leighton Best Shampoo. Sells readily. Keeps the hair clean—makes it grow luxuriantly and absolutely prevents infectious head troubles. Boxed in special display boxes, as illustrated, with one only as Bonus.

Price **28**/- per dozen.
(13 to dozen).
P.A.T.A. **2 9** each.

ORDER THROUGH YOUR WHOLESALER.

Or direct from

The Leighton Laboratories,
35 Gray's Inn Road, LONDON, W.C. 1.

Telephone Holborn 825.

DEARBORN Limited,

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialties.

		Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP	a complexion soap	10/-	1/-
PROLACTUM	for the lips	10/-	1/-
PARSIDIUM JELLY	for wrinkles	10/-	1/-
ALLACITE OF ORANGEBLOSSOM	a dressing cream	22/6	2/6
BORANIUM	a hair tonic	22/6	2/6
CLEMINITE	for a face lotion	22/6	2/6
COLLIANDUM	for a face tint	22/6	2/6
ONALITE	a foot powder	22/6	2/6
PERGOL.	a deodorant	22/6	2/6
STALLAX	for a shampoo	22/6	2/6
JETTALINE	for clearing the skin	31/6	3/6
PHEMINOL.	a depilatory	36/-	4/-
MENNALINE	for the eyelashes	36/-	4/-
MERCOLIZED WAX	a face cream	31/6	3/6
STYMOL	for oily complexions and blackheads	36/-	4/-
BARSYDE	dandruff eradicator	22/6	2/6
TAMMALITE	for grey and faded hair	22/6	2/6
LIQUID PERGOL.	to check excessive perspiration locally	31/6	3/6
BICROLIUM	for whitening the hands	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES.

COLONIAL DEPOTS AND AGENCIES.

AUSTRALIA.
ALL WHOLESALERS and DEARBORN Ltd. Grace House, Clarence St., Sydney.

SOUTH AFRICA.
LENNON & CO., Ltd. (Cape Town)
SIEVE BROS & KARNOVSKY (Johannesburg).

INDIA.
KEMP & CO., Ltd. (Bombay).
SMITH, STANISTREET & CO. (Calcutta).

NEW ZEALAND.
SHARLAND & CO., Ltd. (Auckland and Wellington).

SOUTH AMERICA.
DEARBORN, LTD. CALLA SALTA, 264, Buenos Aires.

The Holoyd Page

The Broad Outline

is the first of the series of papers which will be the chief feature of the

Holoyd Salesmanship Course

These are being written and the course conducted by a man who knows the Science of Salesmanship as few know it.

"The Broad Outline" is free to all Pharmacists and their assistants who will ask for it, and asking for it commits you to nothing. Originality of treatment and real aid and helpful collaboration will be the basis on which our expert will build, and this first paper will give you "the note."

Write us now—address

The Sales Expert and Organizer

at address below.

Compressed Tablets

The bulk production of Compressed Tablets, from $\frac{3}{16}''$ to $2''$ diameter, will be one of our principal activities in our new and considerably enlarged Laboratories.

There is no form of Tablet we are not prepared to manufacture, and we shall welcome inquiries from bulk buyers for Tablets, either from their own or official formulæ.

Let us hear from you.

The Holoyd Laboratories
Green Lane, Small Heath
BIRMINGHAM.

CROSFIELDS'
CHEMICALLY PURE GLYCERINE.
PYRAMID BRAND.

The finest Glycerine obtainable for medicinal purposes. Absolutely pure. Guaranteed to stand all the tests of the British Pharmacopœia.

IN 14 lb. 28 lb. & 56 lb. TINS. (WOODEN CASES.)
1, 2½, 5 & 10 CWT. DRUMS. (RETURNABLE)

JOSEPH CROSFIELD & SONS LTD Chemical Manufrs. WARRINGTON.

BRUSHES

Having just received large consignments of the above (bought on favourable terms), we now offer these goods at the very low prices quoted below. These prices only apply until stocks are cleared.

NAIL BRUSHES.

Polished wood, curved back, $4\frac{3}{4}'' \times 1\frac{5}{8}''$ fibre, 7 rows ... ... } assorted, equal quantities of each per doz. **8/6**
,, hollow back, $4\frac{3}{4}'' \times 1\frac{1}{2}''$ bristle and fibre, 8 rows }

TOOTH BRUSHES.

	Assortment	B	C	D
Bone handles ... ... Four rows	per doz.	**8/-**	**9/-**	**10/6**

Special line, 4 rows, waxed back, per doz. **8/6**.

SHAVING BRUSHES.

Bone handles, hog hair ... ... per doz. **18/-**
,, imitation badger ... ... ,, **24/-**

HAIR BRUSHES.

Satinwood back, whalebone, 8 rows ... ... per doz. **33/-**

5% discount allowed for prompt cash off above prices.

OUR GOODS ARE RIGHT. MONEY BACK IF NOT SATISFIED.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 Great Saffron Hill, LONDON, E.C.1.

A BRITISH PRODUCTION

TOOTH "OZOMINT" PASTE

Prepared with Chlorate of Potash.

Allows you a handsome protected profit. We co-operate with your Dentist friends to increase sales. Striking Showcards, Cut-outs & Literature supplied. Bonus for Window shows. Will keep in any climate.

CUXSON, GERRARD & CO., LTD., Manufacturers, OLDBURY.

EXPORT INQUIRIES SOLICITED.

SEASONABLE LINES

CORN VELVET (Pink Back)
3 doz. on a card, **2/8** doz.
(Contains 40% Acid. Sal.)

CORN PAINT
1 doz. on a card, **4/6** doz.

LOOFAHS
2/- doz.; **21/-** gross lots.
2/6 doz.; **27/-** gross lots.

SPONGE BAGS (Check)

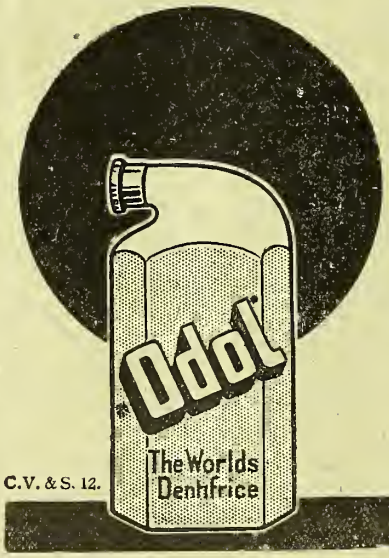
Nos. 1	2	3	4	5
6/-	**7/4**	**8/8**	**12/-**	**14/6** doz.

BRILLIANTINE (Sprinkler)
5/6 7/- 9/- 10/- 12/6 doz.

TOOTH BRUSHES
4/6 8/6 9/- 12/6 doz.
AND ALL SUNDRIES.

THOS. SWALES,
DRUGGISTS' SUNDRIESMAN,
24 Butts Court, and 89 Albion St., LEEDS.

BRITISH ODOL



Send for Price List and Trading Terms.

Revised Retail Prices.
Grand Double Flask 5/3
Full-size Bottle 3/-
Half-size Bottle 1/9

ODOL Chemical Works, BERKHAMSTED.

C.V. & S. 12.

LABORATORY OF GENERAL PHARMACOLOGY,
8, Rue Vivienne, Paris.

LONDON AGENTS:
WILCOX, JOZEAU & Co., 49, Haymarket, S. W.

CHAPOTEAUT'S CAPSULES of PHOSPHOGLYCERATE of LIME.

THE BEST TONIC FOR FORTIFYING AND BUILDING UP THE NERVOUS SYSTEM.

Sold by all Chemists.
Wholesale: 8, Rue Vivienne. PARIS.

MORRHUOL CHAPOTEAUT

CAPSULES

MORRHUOL DE CHAPOTEAUT is extracted from cod-liver oil, and contains all its efficacious properties without the disagreeable taste.

It cures Coughs, Bronchitis and Catarrh, restores the appetite, and gives force to feeble persons.

SOLD BY ALL DRUGGISTS.

CHANDRON'S DROPS
(Gouttes des Colonies)

A harmless antiseptic preventative against CHOLERA-FERMENTATION - INDIGESTION & other intestinal disturbances.

SOLD BY ALL CHEMISTS

LONDON AGENTS
HEPPELL & CO., 164, Piccadilly, W.

SALES
BEAT ALL RECORDS.

INDIAN PERFUME BRICK

KEEPS AWAY MOTH.
LASTING & FRAGRANT.

PERFUME
BRICK

FOR LINEN CUPBOARD AND WARDROBE.
Retail Price, **6d.**

Of the Makers:
ALBERT WILLIS & ARTHUR, Ltd.
6 Mortimer St., London, W.
AND ALL WHOLESALERS.

Manicure your Finger Nails with
"RediO"
TRADE MARK
Finger Nail Cloths.

They give a brilliant, lasting polish without pumice, dust, or grease. Beautiful finger nails give the finishing touch to a cultured hand.

Of all Chemists, Hairdressers, etc.

Prices:
6d. and **1/-**

The REDIO CO. specialises in impregnated cloths.
Try the celebrated Redio *Metal* Polishing Cloths.

REDIO CO., Ltd., 66 Fore St., London, E.C. 2.

D.D.D.
Prescription
FOR ALL SKIN & SCALP DISEASES

A well-advertised, high-grade preparation, enjoying a steadily increasing sale. On the P.A.T.A. protected list, giving the retailer a profit of about 25%.

TRADE PRICES.

		per doz.
D.D.D. Prescription 2/9 bottle, M.R.P. Face Value, @		25/6
,, ,, 5/- ,, ,, ,, ,,		47/-

In two strengths—Ordinary and Strong.

		per doz.
D.D.D. Soap ... ... 1/- tab. M.R.P. Face Value, @		8/3
,, Shaving Soap ... 1/6 stick ,, ,,	,,	13/6
,, Vanishing Cream 2/6 jar ,, ,,	,,	22/6
,, Shampoo Powders 2/6 box ,, ,,	,,	22/6

Carriage paid to any part of the United Kingdom.

Showcards, &c., Supplied Free.

D.D.D. Co., Ltd.
3, 5, 7 Fleet Lane, Ludgate Circus, London, E.C.4

STRAW HAT TIME

will soon be here. Book your order for

"MILNER CLEANER"

early, so that you will be able to supply your customers as soon as they ask for it. "Milner Cleaner" is known to be the best thing used for making soiled white straw hats look just like new, at the popular price of **3d.** per packet.

Sold all over for the last 10 years.

Prices to the Trade: 6 dozen **12/-** net: 12 dozen **19/-** net. Carriage paid.

Discount: On orders of 20/- 2½%; £5 5%; £10 7½%.

Special Offer: 13 dozen to the gross for cash with order.

Send your order in now to

MILNER'S CHEMICAL CO.
LIVERPOOL.

TERPENELESS OILS

BRITISH MADE.

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the World.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
Bay
Bergamot
Caraway
Cassia
Cinnamon
Clove
Dill
Geranium
Ginger
Juniper Berry
Lavender
Lemon
Limes
Mandarin
Nutmeg
Orange
Peppermint
Petitgrain
Rosemary

CITRAL

EUCALYPTOL

CINNAMIC ALDEHYDE

GERANIOL

HOLLANDS DISTILLERY, Ltd.

Lavington Street, Southwark, London, S.E. 1.

A B C Code (5th Edition), Western Union.

Telegrams: "LANDSLOH LONDON."
Telephone: HOP 898.

***AMERICAN AGENTS*—O. A. BROWN CO. INC., 99-101 Beekman St., New York.**
***CANADIAN AGENTS*—F. S. JARVIS & CO., 18 Toronto Street, Toronto.**

Quin Quenna

BETTER THAN A SHAMPOO

Persistently advertised everywhere.

Discriminating women use and demand it.

Discerning Chemists stock and show this carton prominently. It needs no talk to sell.

Moreover, it nets, with **Bonus,** the wonderful **P.A.T.A.** profit of

43% | TO YOU **4/-** PER DOZ. | PUBLIC **6d.** P.A.T.A. | **43%**

Have we had your postcard?

A Box, as illustrated, containing 6 doz. and 1 doz. Bonus, Carriage Paid to your address *at once* on receipt of postcard.

CHRISTY'S, OLD SWAN LANE, LONDON, E.C. 4.

KO-TAL-KO

IS ASKED FOR EVERY DAY BY YOUR CUSTOMERS

Stock "KO-TAL-KO" because

You cannot offer or sell a more effective hair restorer and maintainer—one more natural in its principles and certain in its effects.

Your regular customers will want it from you, and if they do not obtain it at your store will be tempted to go elsewhere.

You will never have your stock of "KO-TAL-KO" tying up your capital uselessly—on the other hand, your repeat orders quickly follow.

My trade terms will suit you, for they allow you to make your proper and deser ved profit, and you are working on sound business all the time.

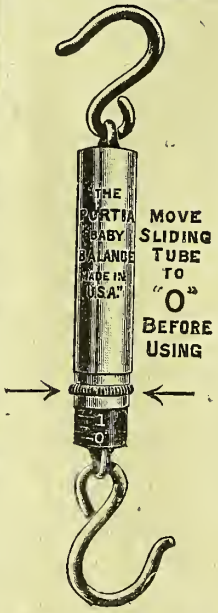
NOTE TRADE TERMS (P.A.T.A.)—

5/- Size ... ... **48/-** per dozen
12/6 ,, ... **112/6** ,,

J. HART BRITTAIN, Ltd.
(Dept. C.D. I),
2 PERCY ST., LONDON, W.1

KO-TAL-KO

Just Arrived.



A Limited Consignment of

THE

"PORTIA"

(Regd.)

NET WEIGHT

Baby Balance

Weighs up to 15 lb.

Price	Retail
30/- dozen.	**3/6** each.

Owing to restricted imports this line has been off the market for some time, and we think that many friends will be glad of the opportunity of renewing their stock.

SOLPORT BROS., Ltd.

184 to 190 Goswell Rd., London, E.C.1.

Obtainable through all Wholesale Houses.

WHITE BAND MFG CO LTD

The TRADE MARK Chemists should WATCH!

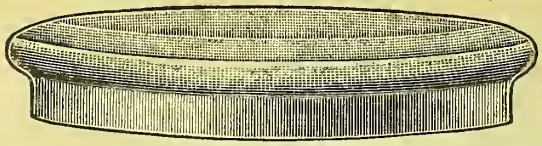
A NEW DEPARTURE

The demand for White Band Lines is created by advertising in Journals, Newspapers, etc & by the co-operation of the Chemist in giving window display. In return for this we give bonuses which leave a profit averaging 100%

Write for List

SNOWLEEN
ZOKO Tooth Paste
KARMOL Shampoo
Oxygen Tooth Powders
Carbolic Tooth Powders
Lanoline
Boracic Ointment
CHAPPA
Chilblain Ointment
Dazzla Hat Cleaner
VERM-KIL
PEDAKOL Foot Balm
Nursery Pomade

White Band Mfg Co Ltd
Croydon, Surrey.



CELLULOID CAPS

for Pots and Bottles.

F. W. DUROSE,

45 Queen Street, SMETHWICK, BIRMINGHAM.

Telegrams: "Durose Smethwick."

Essential Oils & Crude Products for The Drug Trade.

M. GILBERT, VINCENNES, Nea PARIS.

TO USERS and DEALERS in METH. SPIRIT and SPIRIT OF WINE.

FOR QUOTATIONS apply to—

PRESTON'S LIVERPOOL DISTILLERY Co., Ld.

The Largest Makers in the Kingdom,

BANKHALL DISTILLERY, SANDHILLS, LIVERPOOL. Office: 4 India B'ngs, Water St., Liverpool.

All Chemists and Stores adjacent to **Theatres** and **Music Halls** should stock the famous

LEROZA Theatrical Cold Cream and Grease Paint Remover.

Used and recommended by all the leading Artistes, including The Two Bobs, Ernie Mayne, Miss Victoria Monks, Shaun Glenville, and scores of others too numerous to mention. Sells at 1/6 per tin box (about ½ lb. costs 13/3 per dozen carriage paid. **Cash with order.**

From the Sole Inventor and Manufacturer, ARCHIBALD MOLE-FLOYD,

THE LEROZA THEATRICAL STORES, 75 Cambridge Street, Glasgow.

PERFUMERS ! SHORTAGE OF LABOUR

Advertisers are prepared to undertake the blending of Shampoo, Tooth, and other Toilet Powders, in large or small quantities at lowest possible rates. Good workmansh p and prompt delivery. Ingredients supplied if desired at lowest market prices, Write, stating requirements.

MARTIN & CO., 71 City Road, Finsbury, **London, E.C.1.**

LOVELY EYELASHES

(A BRITISH SCIENTIFIC TRIUMPH)

P.A.T.A. M.R. Prices. 1/, 1/9 & 3/6

EXTENSIVELY ADVERTISED

Colourless, harmiesseyelash food. Beneficial to the eyes.

25 % on small orders, 33⅓ % on Gross Lots.

CURLASH CREAM

For a small show in your window:

OUR WINDOW-SHOW OFFER	3 Doz. @ 1/-	£1 16 0
	9 Free	9 0
	Returns	£2 5 0
	Outlay	£1 7 0
	NET PROFIT 66¾%	18 0

With Dummies and Show-cards. Carriage paid.

THE BALDWIN MFG. CO., Ltd., 95 Wigmore St., London, W. 1.

"WAVCURL" promotes Curly Hair.

An absolutely unique scientific toilet preparation. Harmless and effective. Sells at sight. Widely advertised and shows a splend d margin of profit on minimum protected price. Every Chemist who appreciates the value of quick returns and satisfied customers should stock "WAVCURL." Descriptive circular will be sent to all chemists on applying for it. Special to Wholesalers.

Packets, 1/6, at 9/- per doz. Bots., 2/9, at 21/- per doz.

THE NEW WAVCURL CO., Fulwood House, High Holborn, London, W.C 1

BOTTLES

Delivery from Stock. Cannons, Brills, Heavy Oval Perfumes, Tobins, Limes. Wholesale only.

E. DUNCAN DORING, 7 King Street, Cheapside, E.C. 2.

Telegrams—"Doringlaso, Phone, London." Telephone—City 500.

For Delicate Skins.

EUDERMINE CREAM

at 2/6 per bottle.

EUDERMINE FACE POWDER

at 2/6 per box.

Obtainable at all Chemists and Stores.

Manufacturers: EUDERMINE CO., LTD.

79 Coleman Street, LONDON, E.C. 2

Hindes HAIR TINT

For GREY OR FADED HAIR.

Regd. Title - "SEEGEROL."

HINDES, Ltd., 1 Tabernacle St. City, London, E.C. 2

Patentees & Manufacturers of the World-famous Hindes' Wavers.

THE name Zenobia is so intimately associated with perfection in perfumery, that the buying public eagerly welcome the Toilet Preparations also manufactured by the firm of Zenobia, Ltd. Chemists will find that the name

ZENOBIA

alone is sufficient to ensure ready sales, while the pleasure found in the use of Zenobia Specialities in its turn ensures satisfied customers. We particularly recommend

ZENOBIA BRILLANTINES.	ZENOBIA TOILET POWDERS
-/8d. size.....6 - per doz.	1/3 size.....10/6 per doz.
1/4 „ ... 12/- „ „	2/9 „ .....24/- „ „
2/2 „ ... 19/6 „ „	-/7½d. Poudre Orientale. 5/6 per doz.

Subject to usual discount.

A complete Catalogue will be forwarded on application to—

ZENOBIA LTD., Loughborough, ENGLAND

BIDWELLS' LTD.

RELIABLE TOOTH BRUSHES.

Gloria Silverdrawn, 18/-
Mitre - - - 14/-
Elephant - - 12/-
Anchor - - - 9/-

GROSS LOTS NAMED FREE. CARRIAGE PAID.

We invite you to try them.
We guarantee satisfaction.

A selected £10 parcel of Hair Brushes from 30/- to 100/- per doz., carr. paid.

Made at our Factories, AXMINSTER, DEVON.

JULES LANG & SON

WE HAVE LARGE STOCKS OF

French & Japanese TOOTH BRUSHES

Small stock of Military Hair Brushes.

Samples will be sent on application. Wholesale trade only supplied. NOT Retail.

Charlton Works, Charlton Place - ISLINGTON, LONDON, N. 1.

Telegrams: "Assorted, Phone, London." Telephones: North 2770 (3 lines).

'Ongard' Guarded Coil Safety Pins RUST PROOF.

REGD TRADE MARK

For Surgical & Nursery Purposes.

SOLE MANUFACTURERS
GEORGE GOODMAN LTD.,
BIRMINGHAM.

Stocked by JAMES L. HATRICK & CO., LTD., 70 St. John St., Clerkenwell Rd., LONDON, E.C. 1.

"Strodonia" VANISHING CREAM

For displaying a small showcard, we make the following offer on INITIAL DIRECT ORDERS (One parcel only):—

1½ dozen	7½d.	selling for	11 3
¾ „	1/-	„ „	9 0
For 10/- cash with order, carriage paid.			20 3

7½d. and 1/- - - - 5/6 and 9/- per dozen.
From London Wholesalers.
Direct Orders value £5 subject to 10% discount and 1 doz. 1/- size bonus for window display, showing 38% on Turnover.

STRODE COSH & PENFOLD, Manufacturing Chemists LOWER UNION ST., BRISTOL.

WE ADVISE YOU

TO STOCK OUR

"MOOVIT" CORN PENCILS

which are being extensively advertised. This continual advertising, proven merit, and satisfied customers, have created a steady demand. We furnish attractive showcard and window bills. Why not keep a supply and profit by the easy sales created?

Try a sample dozen 10/-; sells at 15/-

which gives you a very handsome profit, and is on the P.A.T.A.

Cash with Order. All goods are carriage paid. The time to order is now, while you have the matter before you.

TALBOT WILSON,
20 HIGHGATE ROAD, LONDON, N.W. 5

STERNS LIMITED

A.D.5., Royal London House, Finsbury Sq., E.C. 2.

Telephone: 3797 London Wall. (Four Lines.)

Telegrams: "Centumvir, Phone, London." (Two Words only.)

TO CREATE TRADE

stock lines that recommend themselves.

Quencholeen requires no sugar.
Quencholeen will bring you customers and add to your reputation.
Quencholeen pleases everybody and retails at **1½d.** per pkt., or in cartons of **13** pkts. for **1/6**.

Trade Terms.

13/- per doz. cartons, 5 doz. lots, 12/- per doz. net, together with showcards and windows bills complete, ca h with order. Carriage Paid.

The Violiv Manufacturing Co.,
26 Haymarket Terrace, Edinburgh.

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants, Manufacturing Chemists

HULL.

INVITE the Trade to take up the following valuable P.A.T.A. Protected Lines, bearing a very large Protected Retail Profit, which sell freely and are well known and valued by the Public in many parts of the country.

P.A.T.A.	Protected Retail Price.	Dozen Net
*LOSALL'S SALT (well advertised), tins	9d.	6/6
* ,, ,, ,, ,, ,,	1/6	13/-
* ,, ,, ,, ,, bottles in cartons	2/-	16/-

**Losall's Salt sells so well, surely it must pay Pharmacists to stock such a big profit-bearing protected line.*

LOSALL'S COMPOUND SULPHUR SOAP.

	Box.	Doz.
A valuable emollient medicated skin soap, especially suitable for use in Eczema. 3 Tablets in a box for 8d.	2/-	18/-

VEN-YUSA PREPARATIONS

Special Window Show Offer

YOU purchase an assorted Parcel of Ven-Yusa Cream, Soap, and Shampoo Powders value	£2	10	0
WE allow you for Showing Cards	0	5	9
Nett Credit Terms	£2	4	3
IF CASH ENCLOSED deduct 2½%	0	1	3
Nett amount to send	£2	3	0

Your Profit on the Investment will be 50%

Larger Orders are accepted on pro-rata terms, 2½% extra allowed on orders of 12 times above quantities, if cash with order.

MINIMUM PRICES FACE VALUE.

ORDER FORM.

To Messrs. C. E. FULFORD, LTD., Carlton Hill, Leeds.

Date.....

Dear Sirs,—Please supply on Window Show Terms £ s. d.

.....*Gross*.....*Doz. 1/- Size Ven-Yusa Cream* @ *9/3 doz.*

.....*Gross*.....*Doz. 6d.* „ „ *Soap* @ *4/6* „

.....*Gross*.....*Doz. 1/6* „ „ *Shampoo Pdrs.* @ *13/6* „
(7 3d. Shampoos in pkt.)

.....*Gross*.....*Doz. 3d. pkts* „ *Shampoo Pdrs. 22/- gross*
(6 doz. Cartons only.)

Remittance enclosed £ : : £

Name and Address.....

.....

MINIMUM PRICES FACE VALUE.

NOTE.—If Cash does not accompany Order, references should be given for New A/cs. Credit Terms are Strictly Nett, 30 days.

FINEST **BLACKS** AND

COLOURS

(ALL SHADES)

CARAMEL COLOUR

IN POWDER.

Guaranteed Harmless.

50

times the concentration of Liquid Caramel.

Sample on application.

Soluble in

WATER SPIRIT
OIL TURPS
WAX BENZOLINE
GLYCERINE NAPHTHA
PETROLEUM CREOSOTE

and

IN FACT—ANYTHING.

BLACK FOR INK.

MARKING INK.

ETERNITE

A combined Stain and Preservative for Wood.

HOUSEHOLD DYES.

RHEUMSOL BATH SALTS

in 1/- Tins.

WILLIAMS BROS. & CO.

Hounslow, Middlesex.

Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes: 2/-, per dozen 16/-; 4/-, per dozen 32/-

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Introductory Offer. Cost £2; Retails 60/-—Profit 20/-.

½ Doz.	Ingram's Milkweed Cream	Retails	2/-	Price	8/-
½ Doz.	,, Velveola Souveraine (Face Powder)	,,	2/-	,,	8/-
½ Doz.	,, Zodenta Paste for the Teeth	,,	1/-	,,	4/-
½ Doz.	,, Rouge, Light, Medium, Dark	,,	2/-	,,	4/-
½ Doz.	,, Perfume, 1 oz. assorted in fancy packages	,,	4/-	,,	16/-
	100 Guest Room Packages free.				£2

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.

Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

OVER 100 % PROFIT ENSURED & PROTECTED (P.A.T.A.)
for sellers of

Laurence's Hair Dyes

One solution, nine shades.

A first-class article with an excellent demand, created entirely on its own merits, and carrying a first-class profit.

Size.	Minimum retail.	Minimum wholesale.	
1/-	1/-	7/6	per doz. less 5% discount.
1/6	1/6	9/-	
2/6	2/6	15/-	
3/6	3/6	21/-	

SPECIAL BONUS

Buyers of 3 doz. bottles receive 3 bottles gratis (may be assorted and any size).
Do. 6 doz. do. 8 bottles gratis.
Do. 12 doz. do 18 bottles gratis.
Equivalent in the case of the size in most general demand, viz. 1/6 size, to 4/6, 12/- and 27/- respectively.

Sole Proprietors—
C. R. HARKER, STAGG & MORGAN, LTD.
DEVON WHARF,
Emmott Street, Mile End, London, E.1.

BE SURE AND ADD

La-Rola Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber

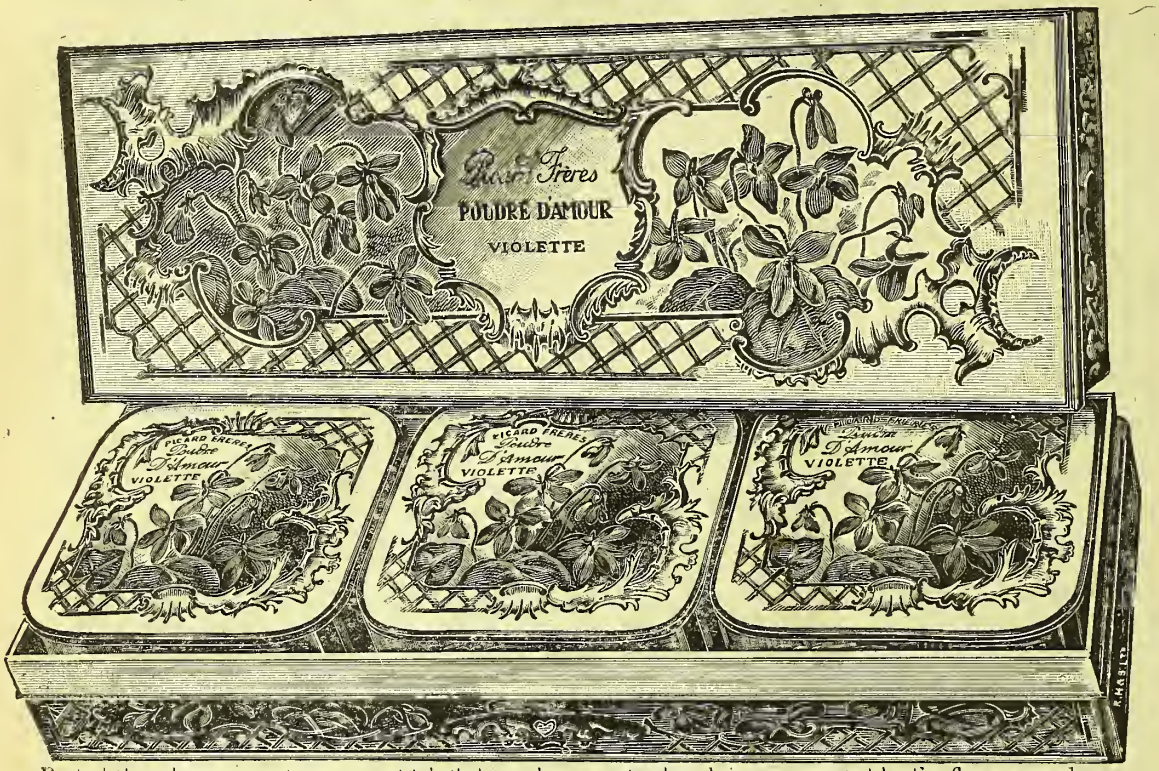
supplied as usual.

All these articles are protected at Face Value. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

PICARD FRÈRES' POUDRE D'AMOUR.—Floral Series.

CARNATION, GIROFLÉE, VIOLETTE, SWEET PEA, or ROYAL.



Packed three boxes in each outer, and labelled in colours, each odour being represented by the flowers, as above illustration of the Violette, **12/3** doz. Special quotations for quantities.
When ordering kindly state Poudre d'Amour, Floral Series.

PICARD FRÈRES'
BRILLANTINE

(About 4½ oz.)

No. 4658

ASSORTED PERFUMES

26/- PER DOZ.

The Shaving Stick with the Creamy Lather.
Enclosed in a handsome nickelled case.
11/- per doz.; **129/-** per gross.

Subject to 2½ per cent. Discount.
A copy of our Monthly Illustrated List will be sent on application.

R. HOVENDEN & SONS, LTD.

20, 30, 31, 32 & 33 BERNERS ST., OXFORD ST., W. 1. Tel. No.: Museum 2810 (3 lines).
And 89, 91, 93 & 95 CITY RD., FINSBURY, E.C. 1. Tel. No.: 6260 London Wall (2 lines). **LONDON.**
Factory: 41 to 53 BRITANNIA ROW, ISLINGTON, N.

Necessary Dairy Preparations.

60 Years' Reputation.

TOMLINSON & CO.'S

BUTTER POWDER,
BUTTER COLOUR,
PRESERVATIVE,
CHEESE RENNET,
CHEESE COLOUR,
&c., &c.

ATTRACTIVE ADVERTISING.

WILLSON'S

LIQUID ANNATTO,
JUNKET TABLETS,
CURD PRODUCER,
LACTIC ACID FERMENT,
&c. &c.

Please note: TOMLINSON & HAYWARD are now the sole proprietors of these preparations.

WRITE FOR LISTS, &c. **Tomlinson & Hayward, Ltd., Lincoln.**

High-Class Emollient for the Hands.

"MENOLAN" for the Hands.

Prices: Retail 7½d. per tin, 60/- per gross, with 1 doz. bonus, and 2½% discount for cash in 7 days.

MENOLAN CO., LTD., 233 Bristol St., Birmingham.
London Agents, F.H. Plews & Co., Canterbury Rd., S.E.

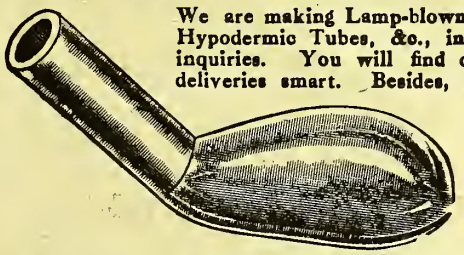
FOR SALE.

HARD WHITE BLOCK.

10 cwt. Redistilled STEARINE, 120/122 M.P.
3 tons NEUTRAL FAT - 126/128 M.P.
190/- per cwt., or nearest bid.
Box 236/34, Office of this Paper.

JULES LANG & SON

Sole Proprietor: FERNAND RENE LANG



We are making Lamp-blown Glassware, such as Ampoules, Hypodermic Tubes, &c., in England. Let us have your inquiries. You will find our prices competitive and our deliveries smart. Besides, we also have varied stocks of Glass Bottles.

Send us your inquiries and ask for our Stock List.

Nasal Douche.

Telegs.: "Assorted, Phone, London." Telep.: North 2770 (3 lines).

Charlton Works, Charlton Place - - ISLINGTON, LONDON, N.1.

A good "sundry" for Chemists. In regular demand. Increased production facilities now permit the prompt execution of all normal orders and the opening of new accounts.

ANDREWS' Liver Salt

USUAL SIZE **8½d.** 2/- FAMILY SIZE **1/4**

If you do not already stock Andrews' we would like to send you our Trading terms and a tin for your personal Trial.

Please state requirements, or send for Sample Tin.

Scott & Turner Ltd., Manufacturers, (Dept. C.D.) Newcastle-upon-Tyne.

London Depot: J. C. Gambles & Co., 46 Farringdon Street, E.C. 4.

TO PLEASE YOUR CUSTOMERS, STOCK

Overton's Foot-Balm

A REAL Foot Remedy with a big Profit.

R. H. ALLEN & CO.
Manufacturing Chemists,
122/124 Wells Road, Sydenham,
LONDON, S.E. 26.

PETROLEUM JELLIES

White, Yellow, Amber and Red.

For Pharmaceutical and General Purposes.

AMERICAN SPIRITS OF TURPENTINE,
OLIVE, CASTOR, COLZA OILS,
ROSIN, and LUX BLOOMLESS MINERAL OILS.

James Arnott & Sons, Ltd.
Newcastle-on-Tyne and Cardiff.

METHYLATED SPIRIT

OILS AND CHEMICALS.

Buy from one of the Oldest Houses in the Trade.
Write for Prices. ESTABLISHED 1794.

SAMUEL THORNLEY, Ltd., BIRMINGHAM

EUCALYPTUS OIL

(RECTIFIED).

Eucalyptol Content 70/80%
Optical Rotation ... ... 0 to 1
Specific Gravity ... ... ·919 to ·928
Absolutely Free from Phellandrine.
Quotations by Cable. Wholesale Trade Only.

BURNSIDE & COMPANY
Eucalyptus Oil Distillers,
VICTORIA, AUSTRALIA.

New Postal Address— 439 Flinders Lane, Melbourne. Cables—"Burnside Company, Melbourne."

PURE ESSENTIAL

OIL OF HOP.

Singly and fractionally distilled.
HIGHEST CONCENTRATION AND PURITY GUARANTEED.
Prices, samples and information from the distillers:—

WHITE, TOMKINS & COURAGE, LTD.
HEAD OFFICE:
48 Mark Lane, LONDON, E.C. 3,
And at
LIVERPOOL, BELFAST, BOSTON, and TANDRAGEE.

TOOGOOD'S TOILET CREAMS

Creme Altesia

A non-greasy Face Cream. Packed in 1-oz. Screw-capped Jars, each in Carton. 7/- per doz.

Altesia Skin Food

A greasy Skin Cream. Packed in 1½-oz. Flat Screw-capped Jars. 7/- per doz.

Manufactured only by

William Toogood, Ltd., 77 Southwark Street, London, S.E.1.

Lescol Perfumery

NOTICE.

New and attractive lines will be brought out shortly, and an illustrated catalogue sent out. In the meantime we will send on application a supplementary list of lines in stock, popular in price and advantageous in sale.

We can also offer to advantage Perfumery in Bulk in two qualities — Essential Oils of guaranteed purity; Floral Ottos for Cachous, &c.; Fruit and Soluble Essences, Chemicals, &c.

THE LONDON ESSENCE CO., Ltd.

(Proprietors of THE LESCOL PERFUMERY CO.)

Lomond Grove, Camberwell, LONDON, S.E.5.

Telephone: 810 HOP. Telegrams: "VANILLIN, CAMBER, LONDON."

Antiseptic. Absorbent.

"CYNTA" Registered HYGIENIC TOWELINES FOR LADIES

SEAMLESS KNITTED — NON-STRETCHING

ELASTIC COVER — WOVEN COVER

(BLUE LABEL) ←——OR——→ (BROWN LABEL)

GUARANTEED ENGLISH MANUFACTURE THROUGHOUT

Approved and recommended by the Medical Faculty

IMPORTANT NOTICE.

TWO SPECIAL FEATURES.

1. Reduction in prices of the "CYNTA" Towelines and Accouchement Sheets.
2. Introduction of Size O Woven Towelines.

PRICES:

"CYNTA" Towelines.

	Knitted.	Woven.	
Size 0	—	9/6	per gross.
,, 1	12/6	12/6	,,
,, 2	17/-	17/-	,,
,, 3	22/-	22/-	,,
,, 4	26/-	26/-	,,

In packets of half-dozen. Sizes 1 and 2, 6d. extra. Sizes 3 and 4, 1/- extra per gross.

"CYNTA" Accouchement Shees.

No. 1	18 × 22 in.	10/- doz.
,, 2	20 × 26 ,,	14/6 ,,
,, 3	30 × 30 ,,	21/6 ,,
,, 4	36 × 36 ,,	30/- ,,
,, 5	36 × 54 ,,	45/- ,,

THE CYNTA MANUFACTURING COMPY.
St. THOMAS' PLACE, STOCKPORT.

Before the Mixed Court Shanghai

Burroughs Wellcome & Co.
Plaintiffs

VERSUS

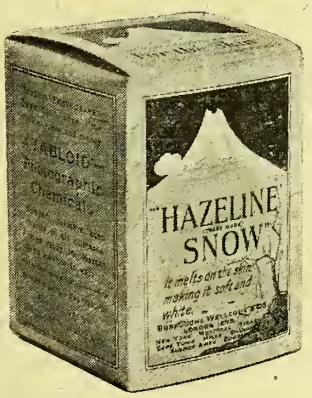
Zing Tsa-nan trading as
The Nanyang Medical Co.
Defendants

A PERPETUAL INJUNCTION granted to Plaintiffs and damages or an account of profits and costs.

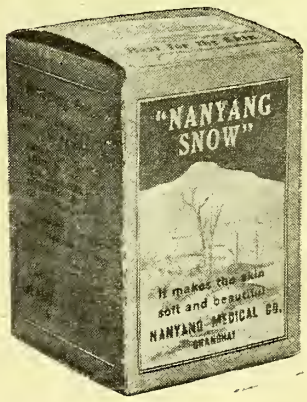
From "C & D" April 5 1919

Chinese Imitation of "'Hazeline' Snow."—Before the British Assessor and Magistrate Kuan in the Mixed Court, Shanghai, Burroughs Wellcome & Co., on February 7, commenced an action against Zing Tsa-nan, trading as the Nanyang Medical Co., claiming an injunction to restrain the defendant from selling or offering for sale "Nanyang Snow" (a toilet preparation simulating their well-known "'Hazeline' Snow"), requiring delivery to them of all such imitations, and damages or an account of profits and costs. Both parties were represented by counsel, and the case was supported by oral evidence. An interim injunction was granted pending the trial of the action. At the adjourned hearing "Nanyang Snow" was proved to be a fraudulent imitation of "'Hazeline' Snow," and the pot, packing, and cover were adjudged similar in design, size, and colour scheme. The imitation product bore pictures of a snow-clad mountain as in the case of the original, and the defendant was shown to have employed in his labels Chinese phrases identical with those used in the plaintiffs' literature. It also transpired that the defendant had permitted sales of the imitation since the grant of the interim injunction, and for this disobedience to the mandate of the Court the defendant was fined $100. The final injunction was granted on March 16, condemning the piracy and awarding to the plaintiffs the usual relief.

The Genuine



The Imitation



WARNING! Remember the trade mark "'HAZELINE' SNOW" and the distinctive packing. AVOID IMITATIONS! We prosecute offenders rigorously in the interests of traders as well as in that of the public and ourselves.

BURROUGHS WELLCOME & CO., LONDON

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'SECTO'

(Reg. No. 291417)

KILLS

BUGS, FLEAS, MOTHS, BEETLES, etc.

NO DISAPPOINTMENT WHEN 'SECTO' IS USED.

3d. Tins, 2/3 per doz. 6d. Tins, 4/- per doz. 1/- Tins, 8/- per doz.

(Subject to our usual profit-sharing discount.)

SHOWCARDS, WINDOW BILLS, etc., Supplied.

CUPAL Ltd., BLACKBURN.

The British Cyanides Company, Limited,

Sales Office: 49 Queen Victoria Street, London, E.C. 4.

Telegrams: "Cyanobril, Cannon, London." Telephone: Central 6273 (2 lines)

POTASH

COMPOUNDS

Manufactured in England from English Potash.

PERMANGANATE OF POTASH. | YELLOW PRUSSIATE OF POTASH. | RED PRUSSIATE OF POTASH.

Orders for less than 100 lb. not accepted by us.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades.
ESTABLISHED 1859.

The CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of many Chemists' Societies in Australia, New Zealand and South Africa.

SUBSCRIPTION RATES.

FIFTEEN SHILLINGS a year payable in advance to any part of the world, including a copy of *The Chemist and Druggist Diary*. Subscriptions may begin with the first issue of any month. Single Copy, 6d.; *Diary* 3s. 6d. post free. Postal orders and cheques should be crossed "Bank of Liverpool and Martin's Ltd."

Prix de l'abonnement annuel: le jounrnal une fois par semaine, et l'agenda nne fois par an, 15s., franco.

Precio de suscripción annal: el periódico una vez por semana, y el agenda nna vez por año 15 ch., franco.

Terms for advertising may be obtained on application to the Publisher
Head Office: 42 CANNON STREET, LONDON, E.C. 4.
Telegrams: "Chemicus, Cannon, London." Telephone Central 3617 (three lines).
Branch Offices: MELBOURNE AND SYDNEY, AUSTRALIA.

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Easter Holidays.

Will contributors and advertisers please note that The Chemist and Druggist and the *Situations Supplement* close for press next week a day earlier than usual—viz., on Wednesday, April 16? It will help us considerably if matter for insertion in the next issue is sent as promptly as possible.

Coming Events.

Wednesday, April 16.

Sheffield Pharmaceutical and Chemical Society, Literary and Philosophical Society's Rooms, Church Street, at 8.30 P.M. Councillor J. W. Deakin on "Our Need and Opportunity."

London (Western) Pharmacists' Association.—A whist-drive and supper will be held at Pinoli's Restaurant, London, W., on April 30, at 7.30 P.M. Tickets (6s. each) from Mr. B. R. Wilkinson, 23 Cromwell Place, London, S.W. 7.

Wills.

Mr. Edwin Lewis Foss, chemist and druggist, Broadway, Worcester, who died on February 22, left estate valued at 2,096*l.* 5*s.* gross, with net personalty 314*l.* 15*s.* 4*d.*

Mr. Cornelius Thurston, Newent, Glos, managing director of the Newent Drug Co., Ltd., who died on December 26, left 6,938*l.* 8*s.* 3*d.*, of which 3,282*l.* 2*s.* 7*d.* is net personalty.

Mr. George Alfred Pickering, chemist and druggist, Well Hill, Royston, near Barnsley, who died on January 25, left estate valued at 3,975*l.* 19*s.* 5*d.* gross, with net personalty 1,214*l.* 1*s.*

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

War Regulations Altered.

Since the last list was published in The Chemist and Druggist (April 5, p. 47) the following Regulations or Orders under the Defence of the Realm Act have been altered or suspended:

Coal Tar.—The Coal Tar and Coke Oven By-products (Returns) Order, 1916, is suspended. This Order required manufacturers and others to furnish returns of the quantity made or in stock of coal-tar products.

Olive Oil.—The Olive Oil Order, 1917, has been cancelled. This Order prohibited the use of olive oil in the manufacture of woollen or worsted goods except under permit.

British Scientific Products Exhibition.

The decision to hold, at Central Hall, London, S.W., a British Scientific Products Exhibition on the lines of the one organised last year has already been announced (*C. & D.*, March 8, p. 49). The opening and closing dates have now been fixed as July 3 and August 5 respectively, and it is stated that conferences will be held with the view of promoting exchange of views between makers and users and between scientific workers and industrialists. Demonstrations and the exhibition of films will take place daily, and as many as possible of the machines will be shown in action. Lectures have also been arranged for. The list of officers and committees includes many distinguished names. The Chemistry Committee, for instance, is constituted by Mr. W. F. Reid (Chairman), Dr. E. F. Armstrong, Dr. J. C. Cain, Mr. J. H. Gardiner, Dr. C. A. Keane, Mr. Robert Mond, and Dr. J. C. Philip; and the Medicine and Surgery Committee comprises Sir James Crichton-Browne (Chairman), Dr. A. Keith, Captain R. Knox, M.D., Dr. Flora Murray, Dr. S. S. Sprigge, Mr. C. E. Wallis, and Dr. Dawson Williams.

Cocaine Cases.

At Marlborough Street Police Court, London, on April 9, Alfredo Angelo Toose (46), described as an Italian actor, was charged under Regulation 40B of the Defence of the Realm Act with being in unauthorised possession of cocaine, at 115 Great Portland Street and 9 Torrington Square, between November 28 and December 28, 1918. The proceedings were formally opened, and were adjourned to April 24, bail being granted.

The final hearings in the case in which Raoul Reginald de Veulle was charged with the manslaughter of "Billie Carleton," and with conspiring with another to procure cocaine (*C. & D.*, April 5, p. 49), took place at the Old Bailey, London, on April 4 and 7. The defendant was acquitted of manslaughter, but was sentenced to eight months' imprisonment in the second division on the other charge. The only additional evidence of interest was that of Mr. Basil Thompson, Assistant Commissioner, Metropolitan Police, who, speaking of the secret traffic in cocaine, said that one reason why there were no convictions in 1917 was, he thought, the increase in the price which the risk produced. He had no doubt that there was trafficking in secret, and although they got information, they never obtained sufficient evidence to secure an arrest. In reply to a question, Mr. Thompson stated that one of the persons under observation happened to be a very good sprinter, and if he suspected that he was being followed he started running, and as he ran he threw away the whole of his stock-in-trade in the form of pill-boxes full of cocaine. The Judge, in passing sentence, said it was a strange thing to reflect that until quite lately those drugs could be bought by all and sundry. He earnestly hoped that that might never be the case again. Addressing de Veulle, he said: "You persistently procured quantities of this drug to satisfy the craving of yourself and another. It is perfectly clear that you well knew you were doing what was wrong. Traffic in this deadly drug is a most pernicious thing. It leads to sordid, depraved, and disgusting practices."

Guardians' Affairs.

The St. Pancras Guardians have agreed to place Mr. G. W. Gibson, chemist and druggist, dispenser at the South Infirmary, on the revised scale of salaries sanctioned by the Local Government Board for dispensers in the Metropolitan area. The appointment which Mr. Gibson holds as *x*-ray operator to the infirmary is not affected by this arrangement.

The following tenders have been accepted by the Boards of Guardians named:

Malling.—Mr. H. C. H. Oliver, chemist and druggist, medical necessaries and soda water.

North Brierley.—Harrison, Parkinson & Co., chemists, Bradford, drugs.

St. Pancras.—Thomas Hodgkinson, Prestons & King, drugs; S. Maw, Son & Sons, Ltd., surgical instruments, etc.; Sangers, surgical dressings, etc.

Todmorden.—Mr. R. H. Barker, chemist and druggist, drugs, etc.

Easter Holidays.

We have ascertained that the following wholesale houses will be closed from Thursday evening, April 17, to Tuesday morning, April 22:

Allen, Stafford, & Sons, Ltd., 7 Cowper Street, Finsbury, E.C. 2.

Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool.

Bell, John, Hills & Lucas, Ltd., Oxford Works, Tower Bridge Road, S.E. 1.

Berton, Arthur, Ltd., 15 and 17 Worship Street, E.C. 2.

Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, E.C. 1.

Burgoyne, Burbidges & Co., Ltd., East Ham, E.

Burroughs Wellcome & Co., Snow Hill Buildings, E.C. 1.

Christy, Thos., & Co., 4, 10 and 12 Old Swan Lane, E.C. 4 (and at 4 P.M. on April 22).

Curling, Geo., Wyman & Co., 56-59 Bunhill Row, E.C. 1.

Evans Sons Lescher & Webb, Ltd., 60 Bartholomew Close, E.C. 1.

Fabra Co., Ltd., The, 24 Minories, E. 1.

Formalin Hygienic Co., Ltd., 3 Lloyd's Avenue, E.C. 3.

Greeff, R. W., & Co., Thames House, Queen Street Place, E.C. 4. (Emergency orders will, however, receive attention.)

Hair, B. W., & Son, Ltd., 104 High Holborn, W.C. 1.

Howards & Sons, Ltd., Ilford.

Lofthouse & Saltmer, Ltd., Hull.

Macfarlan, J. F., & Co., 9 and 11 Moor Lane, E.C. 2.

Mallagh & Co., 19 St. Dunstan's Hill, E.C. 3.

Maw, S., Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C. 1.

Morson, Thomas, & Son, Ltd., Gray's Inn Road, W.C. 1.

Newbery, Francis, & Sons, Ltd., 27 and 28 Charterhouse Square, E.C. 1.

Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, E.C. 4.

Parke, Davis & Co., 50-54 Beak Street, W. 1.

Reuter, R. J., 69 Carter Lane, E.C. 4.

"Sanitas" Co., Ltd., The, Locksley Street, E. 14.

Smith, T. & H., Ltd., 25 Christopher Street, E.C. 2.

Sparks, White & Co., Ltd., Tenter Street, E. 1.

Stevenson, H. E., & Co., 122 Great Suffolk Street, S.E. 1.

Stevenson & Howell, Ltd., 95A Southwark Street, S.E. 1.

Toogood, William, Ltd., 77 Southwark Street, S.E. 1.

Tyrer, Thomas, & Co., Ltd., Stratford, E.

Wood, Vincent, 91 and 93 Newington Causeway, S.E. 1.

Wright, Layman & Umney, Ltd., 44-50 Southwark Street, S.E. 1.

Allen & Hanburys, Ltd., Bethnal Green, E. 2, will be closed on Friday, April 18, and Monday, April 21.

The offices of The Chemist and Druggist will be closed from April 17 to April 22.

Birmingham.

The death is announced of the widow of Mr. W. H. Perry, Ledsam Street and Selly Oak, one of the first pharmaceutical chemists by examination in Birmingham.

The death of Mr. Samuel Ralph Atkins recalls the fact that he had a brother who was a chemist in business at the upper end of Broad Street in this city.

Hedges (Chemists), Ltd., Dale End, have an instructive display in one of their windows setting forth the preparation of some of the ingredients in their specialities.

An old-established chemist's business, doing good trade and occupying a very good position, is advertised for sale by private treaty owing to the death of the proprietor.

Sir Thomas Barclay, who is eighty-two, may be seen any day about five o'clock negotiating the busy traffic of New Street on his way to the station. He is as nimble as if the figures were the other way round.

Mr. Marshall Freeman, barrister and pharmacist, stated lately that in his capacity of Civil Liabilities Commissioner he has met with a number of cases in which perfectly sound businesses had to be sacrificed by the owners making compositions with creditors before joining the Army; "and the worst of it is that in nearly every such case the man's services as a soldier have not been of the smallest possible value."

Leeds.

Assistants are still difficult to obtain—particularly experienced qualified men.

Shorter hours in the wholesale trade will, incidentally, affect deliveries of goods.

Waterglass seems more popular than ever (in spite of the scarcity of eggs), judging by current window-displays.

Wholesalers' representatives are finding some difficulty in obtaining sleeping accommodation in Leeds, and frequently have to journey to adjacent towns for a bed.

Professor J. B. Cohen, F.R.S., recently gave in an interview some details of the war work done by the Department of Organic Chemistry (over which he presides) at Leeds University. It appears that eucaine and novocain were made in Professor Cohen's laboratory, as well as poison gases and "lachrymators." Another problem tackled was the preparation of an invisible ink: in the end a fluid was discovered which, Professor Cohen thinks, would defy detection "even by the most experienced and astute German chemist." The interview makes it clear that the University laboratories are full to overflowing with students, and that there is a "waiting list" in this department.

Liverpool.

The Manor Pharmacy, Great Crosby, is in course of transfer by the executor of the late Mr. Joseph Hargreaves.

The Aintree race-week has had a sequel in the shape of liberal purchases of perfumery and accessories by winners.

The executrix of the late Mr. E. T. Hamer is carrying on the Bridge Road pharmacy, Blundellsands, with the assistance of a qualified manager.

Mr. Stewart, formerly manager to the Exors. of J. L. Moxon, Park Road, has acquired the pharmacy of Mr. George Underwood, Aigburth Road.

The wholesale houses will be closed for Easter from Thursday evening till Tuesday morning. Retailers will attempt to obtain a respite on Monday as well as on Good Friday.

Mr. E. G. Hodges, the veteran whose services as *locum tenens* are in great request, had a narrow escape last week, as it happened that he was crossing the Back Goree at the moment of the warehouse collapse.

A link between the late Sir William Crookes and the Liverpool Chemists' Association is furnished by Mr. H. Humphreys Jones, who has ascertained that in 1865 Sir William lectured to the Association on "The recent application of intense chemical action to the production of light and heat."

The Liverpool Warehousing Co., Ltd., advise that owing to the adoption of a national forty-eight-hour week for road transport, involving an immense increase in the cost of handling traffic, it has been found necessary to advance the present charges for cartage and haulage by 30 per cent. As from March 31 cartage rates are therefore charged *plus* 150 per cent. instead of *plus* 120 per cent.

Portsmouth.

Boots (Southern), Ltd., have purchased the business of Cruse & Co., Ltd., at Palmerston Road, Southsea.

Mr. T. H. Cruse, Ph.C., having disposed of his business, has been paying a round of farewell visits before going into retirement in Lancashire. Mr. Cruse, who is the *doyen* of local chemists, was the first President of the Portsmouth Pharmacists' Association; on the occasion of his election an account of his long and honourable career appeared in the *C. & D.* (I., 1909, p. 503). About ten years ago he had the misfortune to lose by death his eldest son, who was associated with him in business; a second blow fell in the loss of his younger son, an officer who went down in H.M.S. *Hampshire* (*C. & D.*, 1916, p. 668). In spite of everything Mr. Cruse remains well.

Sheffield.

A further special meeting of the Sheffield Pharmaceutical Committee is to be held for the purpose of discussing the agenda of the forthcoming Local Associations Conference. One meeting has already been devoted to this subject.

Sheffield pharmacists have of late had their share of illness. Mr. Austen and Mr. Chadwick are still on the sick-list; Mr. Haining and Mr. Hallatt (who has been ordered to recuperate at Torquay) are convalescent.

A provisional executive committee has invited the local Society to be represented at a meeting to be held in the Council Chamber, Town Hall, with a view of forming a branch of the National Council for Combating Venereal Diseases.

Miscellaneous.

A. & F. Pears, Ltd., have contributed 52*l.* 10*s.* towards the Countess of Athlone's fund for providing new accommodation for nurses at the Middlesex Hospital, London, W.

The Bazaar organised by the employés of Robinson & Sons, Ltd., Chesterfield, in aid of the St. Dunstan's Hostel and the Y.M.C.A. (*C. & D.*, April 5, p. 48) resulted in raising a total of about 700*l.*

The Ramsay Memorial Committee has offered to the University of London a sum of 25,000*l.* towards the foundation of a laboratory of chemical engineering at University College. The Senate have gratefully accepted the offer, and are allotting a site for the purpose.

In the Courts.—At London Sessions, on April 8, the appeal of Dr. Marcus Woolf Cohen against a sentence of six months' imprisonment and a fine of 100*l.*, with 20*l.* costs, for an alleged offence under the Military Service Act (*C. & D.*, January 11, p. 35) was allowed.

Fire.—A fire broke out recently on the premises of Mr. R. Dain, chemist and druggist, High Street, Runcorn. As no horses were available for the fire-engine, the hose had to be taken on a handcart and the outbreak dealt with by the street hydrants. Considerable damage was done.

Inquest.—At York, recently, an inquest was held on the body of George Gawthorp (67), described as a chemist's assistant. The evidence showed that the deceased, who lived on money left him by his father, was discovered in a dazed condition at the foot of a flight of steps. On removal to an infirmary, he was found to have fractured an arm. He was in a dirty condition and was restless. A medical witness attributed death to apoplexy. The inquest was adjourned.

Poisonings.—On April 5, a coroner's jury at Southampton returned a verdict of "Death by misadventure" in the case of Lilian Martin, who was poisoned by accidentally drinking acetic acid which her brother had put into a mug to use for the treatment of warts.—At Poplar, a dock labourer named Taylor committed suicide by taking carbolic acid.—At Manchester a woman, who was in the habit of carrying about rat-poison in her satchel, took a dose on returning from a picture-palace, dying immediately afterwards; a soldier in the employ of a firm of seedsmen drank, with fatal results, some nicotine-wash used for spraying plants. Open verdicts were returned.

War Trade Department.—Lord Emmott and Sir Nathaniel Highmore, K.C.B., who have since its inception in February 1915 been respectively Director and Secretary of the War Trade Department, have resigned their posts. The Board of Trade took over the War Trade Department on April 1, and have appointed Sir Alexander King, K.C.B., as Controller. Lord Emmott will continue as Chairman of the Exports Consultative Council in connection with the Department. The President of the Board of Trade has decided to change the title of the Department to the "Department of Export Restrictions." The Department will remain at 4 Central Buildings, Westminster, S.W. 1.

Acetone Factory.—In the course of the report of the Auditor and Comptroller-General on the Appropriation Account for the Navy, 1917-18, it is stated that "In connection with the production of cordite at Holton Heath a factory for the manufacture of acetone by a new process was erected at a cost of 133,000*l.* for buildings and 50,000*l.* for plant, exclusive of expenditure on steam mains, electrical equipment, and heating arrangements. The work was largely experimental, and, owing to unforeseen difficulties in obtaining basic material of sufficient purity, production was intermittent and the cost considerably in excess of the price of foreign supplies. The factory was closed down shortly after the conclusion of the armistice. I am informed that the question whether it will be economical to start the acetone plant again when materials become plentiful is now receiving consideration."

Clinical Thermometers.—The number of clinical thermometers tested at the National Physical Laboratory since the introduction of the Clinical Thermometer Order of October last has, "Nature" states, reached the total of half a million. The equipment for carrying out this work at Teddington has been increased to such an extent that the number of instruments tested per week is considerably in excess of those dealt with in any year under the older conditions for the certification of clinical thermometers. At the present time it is found that the number of clinical thermometers which do not comply with the provisions of the Order amounts to about 4 per cent. of the total received. The proportion, however, varies greatly for the different makers; for one firm, the output of which is large, the average number of rejected instruments has exceeded 25 per cent. for some time past. Further, of the numerous stocks of clinical thermometers which have been received from chemists and stores throughout the country, the number of unsatisfactory instruments falls between 9 and 10 per cent.

Irish News.

Brevities.

Mr. R. F. M'Cartney, M.P.S.I., has been appointed Chairman of the Coleraine War Memorial Committee.

Miss Ruth Lemon, daughter of Mr. Thomas Lemon, Ph.C., Markethill, has passed her second years' examination in anatomy at the University of Dublin, gaining the professor's certificate of merit and taking first place among the lady students.

At Cavan Quarter Sessions, on April 4, a soldier named Peter Casey (*alias* Patrick Cassidy) was indicted for breaking a plate-glass window, on February 25, in the Medical Hall of L. & R. O'Connor, Main Street (*C. & D.*, April 5, p. 49). Defendant, who was wearing two wound stripes, said he did not remember anything about the occurrence. The jury found prisoner "Guilty," with a strong recommendation to mercy on account of all he had gone through as a soldier. There was a long list of previous convictions against him. The Judge passed sentence of six days' imprisonment, but subsequently adjourned the sentence till next Quarter Sessions on the accused undertaking to pay a sum of 4*l.* out of his bonus. Meanwhile, he was allowed out on his own recognisances.

Drugs and Surgical Appliances Contracts.

The following tenders for the supply of medicines and surgical appliances have been accepted by Irish Boards of Guardians (except where otherwise stated) for the ensuing year:

—	Drugs	Surgical Appliances
Bantry	Cork Chemical & Drug Co., Ltd., 10½%	Fielding's Pharmacy, 8%
Belfast	Sumner & Co., Ltd., 22½%	J. Clarke & Co., Ltd., 20¼%
Carrickmacross	Boileau & Boyd, Ltd., 8¾%	J. Clarke & Co., 17½%
Carrick-on-Shannon	Boileau & Boyd, Ltd., 10½%	Fannin & Co., Ltd., 17½%
Cork Joint Hospital	Cork Chemical & Drug Co., Ltd., 15%	—
Edenderry ...	Boileau & Boyd, Ltd., 10½%	J. Clarke & Co., 15¾%
Fermoy	Sumner & Co., Ltd., 17½%	Clarke & Co., 16¼%
Glenamaddy ...	Boileau & Boyd, Ltd., 10½%	Adamson & Co. (Ballina), 10½%
Kildare Co. Infirmary	Boileau & Boyd, Ltd., 10%	Boileau & Boyd, Ltd., 12½%
Kilrush	Boileau & Boyd, Ltd., 10½%	J. Clarke & Co. 15¾%
Letterkenny ...	Sumner & Co., Ltd., 17½%	Clarke & Co, 15½%
Longford ...	Boileau & Boyd, Ltd., 10½%	Clarke & Co. 16½%
Lurgan	Sumner & Co., Ltd., 22½%	J. Clarke & Co., 20¼%
Navan	Sumner & Co., Ltd., 17½%	J. Clarke & Co., 16½%
Portumna ...	Boileau & Boyd, Ltd., 7½%	Clarke & Co., 15½%
Scarriff	Boileau & Boyd, Ltd., 10½%	—
Swinford ...	Boileau & Boyd, Ltd., 10½%	J. Clarke & Co., 14¾%
Tuam	Boileau & Boyd, Ltd., 12½%	Clarke & Co., 16½%
Wexford... ...	Clarke & Co., 15¾%	Sumner & Co., Ltd., 22½%

Belfast.

Claims for compensation have been lodged with the Corporation of Belfast by Mr. J. A. Bingham, Ph.C., Donegall Place, in respect of 12*l.*, damages to glass; by Dobbin & Co., Ltd., chemists and druggists, North Street, 15*l.*, damages to glass and lettering; by Samuel Hill, chemist, 104 York Street, 20*l.*, damages to specie show jar. The two first claims arose out of the recent strike.

A settlement has not yet been arrived at in connection with the demands of the Belfast chemists' assistants, through the National Union of Warehousemen and Clerks, in regard to wages and hours of service (*C. & D.*, March 29, p. 50). The position at present is, the employers have informed the Union that the matter is now in the hands of the Irish Retail Chemists' Association. This organisation has just been formed, and the provisional officers are: *Chairman*, Sir Thomas Robinson, Dublin; *Vice-Chairman*, Mr. H. G. Pring (Grattan & Co., Ltd., Belfast); *Secretary*, Mr. R. J. Kidney, Star Buildings, 12-14 College Green, Dublin.

Scottish News.

Brevities.

The Distillers' Company, Ltd., has decided to enlarge its malt-extract department.

The demobilisation of the Forces has caused an increase in Insurance dispensing.

The difficulty of obtaining photographic materials is still acute, and the increasing demands make distribution a matter of perplexity.

The Northern Co-operative Society, Ltd., Aberdeen, reports a turnover in the drug department of 15,082*l.* during the past year, with a net profit of 2,816*l.*

So busy are some wholesale drug-houses in Scotland that they have been compelled temporarily to withdraw their travellers and utilise their services in despatching goods.

Chemists seem disinclined to lay in stocks of toilet-soaps—on the assumption that the prices will fall; but it is generally understood that branded soaps will remain throughout the summer at present figures.

Quacks are causing doctors and chemists alike a great deal of bother in the mining districts of Scotland. These men usually carry with them powders, pills, and potions of questionable composition, and visit the patients' houses. No charge is made for consultation, but gratuities are greedily accepted, and the transactions are made to pay well. The patient is advised to avoid medicines and doctors. Rumour has it that certain medical men will shortly take legal action.

Edinburgh.

A West-end perfumer is reported as saying that he is selling more scent than ever before.

Wholesale (and many retail) houses will be closed on April 28 (Edinburgh Spring Holiday).

Mr. Thomas Stephenson, Ph.C., delivered a lecture, on April 8, to boys and girls at the Edinburgh School Board Unemployment Centre.

The Edinburgh Pharmacy Athletic Club has decided to reopen the bowling and golf sections, which have been suspended during the war.

Mr. Peter Innes, M.A., D.Sc., who has just been appointed chief education officer for the City of Birmingham, is a brother-in-law of Mr. Victor Wright, chemist and druggist, Cadzow Place.

Glasgow.

The tramway parcel-carrier introduced recently between Glasgow and Uddingston having proved a failure, the system has been abandoned.

A chemist, says the "Glasgow Times," has been asked to supply a little cocaine by persons who are desirous of knowing "what it feels like."

Among the agencies taken up by Mr. A. Stephenson, 1 Battlefield Crescent, are those of Mitchell's "Pyramid" corks and Christie Malcolm's labels.

A runaway tramcar collided, recently, with a lorry carrying carboys of sulphuric acid. Two of these were smashed, and the fire-brigade was called out to remedy matters.

Society of Chemical Industry.

A meeting of the London section was held at Burlington House on April 7. The Chairman, Dr. C. A. Keane, informed the meeting that arising from the recent discussions and the papers read on refractometry, it had been decided to appoint a Committee to hold a preliminary inquiry into refractometric methods, particularly with regard to the subject of fixing certain standards, such as temperature, etc., a point which has been raised during the discussion. He also stated that Mr. Julian Baker had been elected Chairman for the ensuing year. The annual meeting of the section will take place on May 5, and the annual general meeting in July, the King having graciously consented to act as Patron and the Prince of Wales as Vice-Patron. Dr. Keane paid a warm tribute to the memory of Sir William Crookes. A paper was then read by Mr. E. A. Alliott on the subject of *Drying by Heat*. This contribution, which dealt lucidly and thoroughly with the various kinds of drying apparatus in use, was illustrated by numerous slides showing the various types of apparatus. The author explained their construction, and also their effectiveness, by adducing several examples and charts. This paper will prove a valuable one for reference for all seeking information on drying apparatus.

German News.

New Spirit Prices.—By authority of the National Alcohol Office the price of alcohol for the present business year is fixed as follows: The contract price for alcohol produced in potato or beet working distilleries is fixed at 134m. per hectolitre. A supplementary payment of about 2m. is under consideration. For pure alcohol, so far as it is not intended for auction or for the manufacture of vinegar, an increase of 12m. per hectolitre was effected last year. The same increase comes in force for completely denatured alcohol in casks and tank wagons. From the same date the price for alcohol sold for army drinking purposes was increased by 29m. to 250m. per hectolitre.

Tea-substitutes.—The writer of an article in the "Düsseldorfer Nachrichten" remarks that some time ago he bought a packet of tea which was labelled "A mixture of twenty different herbs," and the contents proved themselves to be nothing more than hay from a woodland meadow, chopped, packed up and sold as German tea. "And yet," he continues, "our fields are rich in herbs and leaves which are quite suitable as substitutes for China tea, and far more beneficial. In peace-time willow-herb leaves were often mixed with foreign tea. The following plants are very suitable for the purpose: Strawberry, bramble, raspberry, holly, willow-herb and black-currant leaves; also heather bloom. The black-currant leaves are very similar in taste to China tea."

The Trade in Opium, morphine, and other opium alkaloids and compounds and preparations thereof has been again regulated by a recent Decree. For all these substances there must now be (1) declaration of stocks; (2) a licence to deal must be taken out, without which trade in the above-mentioned articles is impossible [this does not apply to pharmacies, which are only allowed, however, to sell these articles when required as medicaments]; (3) separate books must be kept for these substances (not obligatory for pharmacists); (4) pharmacists and directors of scientific institutions must secure a special written licence to purchase a stated quantity of specially named preparations from a special wholesale dealer. The granting of this licence is in the hands of some trustworthy person appointed by the Government. Infractions of these regulations are punishable by six months' imprisonment at the most, and fines up to 10,000m. So far as cocaine and other ecgonine derivatives are concerned, the Decree of March 22, 1917, still holds good.

Bavarian State Pharmacies.—Claims for the institution of State pharmacies have been put before the National Council of Bavaria. At a meeting attended by several pharmacists of South Bavaria it was agreed to demand an improvement in the position of assistant pharmacists; the foundation of a "Gehaltskasse"; a forty-eight-hour week; a holiday of not less than three weeks; the immediate abolition of existing licences and a speedier granting of new licences; and the transference of all branch pharmacies into complete pharmacies. The pharmaceutical students of the three Bavarian Universities have placed the following claims before the Government: Institution of the "Maturum" of State pharmacies, and inspection confined exclusively to experts. Further, until the institution of State pharmacies there shall be an eight-hour working day in pharmacies; legal regulations regarding alternate Sunday and night duty; the regulation of assistants' salaries to enable them to marry; the entire exclusion from pharmacies of all persons who have not a pharmaceutical education; and higher salaries to qualified female assistants.

Patents after the War.—The "Hamburgischer Correspondent" states that a report by Dr. Duisburg is to the following effect: The war has exerted a great influence on the utilisation of patents. While it has been found possible to obtain the full value of many patents during the war, the possessors of other patents have suffered serious losses. The idea has been mooted of balancing matters by extending the validity of the patents by the period of the war. But this idea is faced with such hazards and difficulties that it will hardly be possible to carry it out. Another idea, in no way dependent on the one mentioned, is that of the German Association for protecting industrial property—viz., that those patents which may be taken out in the first ten to twenty years after the war should remain valid for twenty years instead of fifteen. Though normally the fixing on a period of fifteen years for the validity seems an equitable compromise between the claims of those who turn the patents into money and of those who find their activities restricted by the patents, we should desire to give a special incentive to inventions as a temporary measure after the war in order to aid industrial redevelopment.

Life in Ruhleben.

By G. P. Forrester, formerly Correspondent in Germany for "The Chemist and Druggist."

Mr. Forrester lectured on "The Internment Camp of Ruhleben" before the Progressive Pharmacy Club on April 9. He prefaced his remarks with a brief survey of the events that led up to the outbreak of the war, *as they were placed before the German people*, and showed how the whole attitude and mental outlook of the Germans had been shaped by the mendacious way in which Germany was made to appear the victim of a conspiracy, engineered to crush a dangerous commercial rival. The facts were represented in such a way as to create the following impression and imbue every German with this fallacious train of thought: Serbia had affronted Austria; Russia, believing that her time had come to arrogate unto herself the *rôle* of protector of the Balkan Slavs, egged on Serbia and also interfered in the quarrel. Russia mobilised not only along the Austrian border, but also along the German frontier. This was (so he was made to believe) a direct threat to Germany, compelling Germany to mobilise. If Russia were allowed time, she could draw on an inexhaustible reserve of men, whereas Germany's sole chance of safety lay in striking a swift blow at the Russian Bear. Hence Germany was compelled to ask Russia—by an ultimatum!—to demobilise; if she refused, then the proof was there that Russia harboured evil designs on Germany. Russia, by not acceding to Germany's request, compelled the latter, "in self-defence," to declare war. When France was asked what attitude she would adopt, her reply that her attitude would be dictated by her (France's) interests was explained to the people as a proof that France thought the time was opportune to take her revenge. It was only on August 4, 1914, when the Imperial Chancellor made his memorable speech in the Reichstag, that the German people heard of the deliberate breach of Belgium's neutrality, followed by Great Britain's declaration of war on Germany, as she would not be a party to treating a solemn obligation as a "scrap of paper." To understand better why Great Britain now became the object of the most intense hatred it is necessary to bear in mind that King Edward's political travels—Entente Cordiale, the *rapprochement* with Russia—had been systematically represented by the Pan-German agitation as Great Britain's efforts to encircle Germany by enemies and isolate her, in order to destroy her at some propitious moment. These plausible, if mendacious, arguments, as explained, left no doubt in the average German's mind about the Russian menace, that his country was the victim of Russian aggression; but now Great Britain's declaration of war on Germany illuminated the whole "conspiracy engineered by England," and how, thanks to England's wirepulling, Germany was faced by a world of enemies, bent on her utter destruction. Therefore, to the German England was the incorporation of all that was vile and despicable. With such a picture deeply engraved on his mind, and from the onset cognisant only of the aspect and "facts" laid before him as outlined, the German was firmly convinced that he was fighting for his existence, his freedom, the maintenance of his country and all that was dear to him; and this idea was adroitly kept alive: every utterance, every act, such as the liquidation of German businesses, the Paris Economic Conference, the "knock-out blow," were utilised to keep up this frame of mind. The German had two favourite answers. Either he said, "It is a lie," or "It was justified by what our enemies have done"; but he could not admit having done any wrong: hence he had no sense of guilt. Mr. Forrester then gave an account of the growing animosity against the British, fanned by statements regarding the alleged inhuman treatment of German civilians in England, and the most terrible accusations levelled against British soldiers. He described how he was twice arrested and imprisoned, until finally arrested on November 6, 1914—when the German Government arrested every Englishman over seventeen—and interned in Ruhleben, where he remained to be among the very last to leave. He gave a picture of the racecourse, the eleven brick barracks, the three grand-stands as they were at the beginning; how in one barrack the six men allotted to one horse-box had to lead out the horse, clean the box, and sleep the same night on straw placed on the concrete floor. The daily round: the lining-up in the snow and rain in front of the kitchen, the roll-calls, the compulsory walks round the racecourse of the early days, were touched upon. Then, refusing to be downhearted or to yield to the temptation of letting things slide, how the men, of all sorts and conditions and ages, in the face of every difficulty, shut off by barbed wire from the world, in the hands of the enemy, looked facts in the face and proceeded very soon to make the best of a bad job. Thanks to their own individual and collective energy and efforts, some order evolved; the boxes were made more habitable by many an expedient; even the dismal and depressing lofts were improved. The Camp School slowly evolved; tennis, cricket, golf, and football were indulged in; a horticultural society not only embellished the camp by planting flower-gardens, but provided vegetables for the inmates. Culinary attempts, when parcels arrived regularly, were not forgotten. And the theatre, one of the principal amusements, was not overlooked; also how Bank Holiday was observed. The numerous photographs, copies of the daily newspaper published in the camp, and several other souvenirs which were exhibited, showed that under their own administration the interned at Ruhleben had in the course of time transformed it into a small town, with all a town's activities; even holding a mock parliamentary election, so realistic that they even introduced—suffragettes. Views of the brighter aspect of Ruhleben could not overshadow the other aspect, the hopes deferred, the sense of enforced uselessness that stung, although from the onset no man doubted what the ultimate end would be, despite the emphatic statement "that we Germans are winning and shall continue to win," made to the men lined up by an infuriated German officer in the very early days

At the close of the lecture, which was listened to with great interest, Mr. S. W. Woolley (Editor of The Chemist and Druggist) proposed a vote of thanks to Mr. Forrester, and recalled some of the great services which the lecturer had rendered to British pharmacy by his writings on National Health Insurance and the Pharmacopœias of the world. Mr. John Humphrey seconded, and agreed that the thanks of the nation were due to such men as Mr. Forrester, who in depressing circumstances maintained the dignity of Britons, and never doubted but that their country was in the right, and that justice would prevail in the end. The President (Mr. Skinner) also referred in appreciative terms to the interesting character of the address. The vote was carried with enthusiasm.

Standardising Disinfectants.

Dr. Samuel Rideal communicates to the "British Medical Journal" the following details of the Standard Bacteriological Test (Rideal-Walker Method) adopted by the members of the British Disinfectant Manufacturers' Association: Well shake the bottle or other vessel containing the disinfectant before proceeding to make the dilution. Make a 1 per cent. stock emulsion (5 c.cm. of disinfectant added to 495 c.cm. of boiled distilled water of 15° C.-18° C.). From this stock emulsion prepare required dilutions in boiled distilled water, taking care that pipettes used for preparing stock emulsion as well as dilutions are, after emptying, always well washed out with and into the diluent, and that all dilutions, including stock emulsion, are well shaken before use. To 5 c.cm. of a particular dilution add 0.2 c.cm. (5 drops) of a broth culture of *B. typhosus* grown for twenty-four hours at 37° C. Shake immediately after medication. Keep medicated tubes at temperature of 15° C.-18° C. and take subcultures into 5 c.cm. broth every two and a-half minutes up to ten minutes. Incubate for at least forty-eight hours at 37° C. (Rideal and Walker, "J.S.I.," October, 1903, p. 424.) Use as stock organism *B. typhosus* from a single colony on an agar plate culture that has been grown at 21-22° C. from two to seven days and removed by weekly transference for several uninterrupted generations from the original source (the human body). Owing to the extremely important influence which the broth has on the characteristics of the *B. typhosus* employed as the test organism in the Rideal-Walker test, *particularly as regards the peptone*, attention is drawn to the fact that this is prepared according to the following modification of the formula of Dr. S. Rideal (Fourteenth International Congress for Hygiene and Demography, Berlin, 1907):

> Lemco, 20 grams. Peptone (Allen & Hanburys' "Eupepton"), 20 grams. Sodium chloride, 10 grams. Water to 1 litre. Boil the mixture for thirty minutes, neutralise with normal caustic soda (phenolphthalein indicator), add 15 cubic centimetres of normal hydrochloric acid; make up to 1 litre with distilled water, filter, and finally sterilise.

The culture employed must conform with the requirements laid down by the authors of the test (*v.* "Lancet," September 25, 1915, p. 717)—viz., "Life in two and a-half minutes and five minutes and no life thereafter," with "phenol dilutions not higher than 1-110 or lower than 1-90."

Legal Report.

Tube-filling Machine Dispute. — In the City of London Court, on April 8, before Sir John Paget, K.C., Deputy-Judge, Farrow & Jackson, Ltd., engineers, 10 Great Tower Street, E.C., claimed 52*l.* against Freeze & Moon, Ltd., manufacturing chemists, 59 Bermondsey Street, for work and labour done in supplying a Kier's patent tube-filler. Mr. H. L. Beazley, for the plaintiffs, said the machine was used by the defendants for filling tubes containing toilet-creams, tooth-pastes, etc. Early in 1917 defendants saw a machine and thought it would suit their purpose, and one was sent on approval. Then plaintiffs wrote and said they hoped the machine was working satisfactorily, and asked that they might invoice it. Defendants said that it was not suitable for the preparations for which they intended using it, and that they should return it. They said they had given it an exhaustive trial and found some fault develop in each case. With toilet-creams, which all contained a certain proportion of water, the pressure between the pistons always caused separation of the water from the base. In every case the spring was at its lightest tension. With tooth-pastes the pistons gradually became clogged, the paste working past them and getting dried by the friction to such an extent that they rendered the work far too hard for the girls using the machine. There was, they said, room for a more rapid filling machine than the screw-down piston type. Plaintiffs replied that the machine enjoyed a good reputation on the Continent before the war, and that it could be improved if the defendants so desired. Some alterations were made and a double-lever movement was altered into a single-lever movement. Plaintiffs' view was that the defendants had not used sufficient grease to make the machine work well. Mr. Jackson, one of the plaintiffs' directors, said they claimed that the machine would give a clean cut to the tooth-paste or other ingredient used in the tubes which were filled. They never thought it would be used for anything but greasy and self-lubricating articles and for such things as vaseline. For the defence, Mr. H. Freeze, managing director of the defendant company, said that they very badly needed the machine, as they had large Government contracts to carry out for supplying tooth-pastes, face-creams, and other such commodities. They increased their machines from four to thirty-three. Plaintiffs' machine would not do the work wanted. Witness had had eighteen years' experience of tube-filling machines. Plaintiffs altered the machine several times without avail. The toilet-cream which was put into it consisted of 25 per cent. of stearin and 75 per cent. of water and glycerin, etc. There was no grit in it. Most of the tubes used nowadays are ¾ in. and some are ½ in. They had filled more than a million tubes of ⅜ in. recently. They did not put anything into the machine which might have clogged it. Mrs. Cook, defendants' forewoman, said that the plaintiffs' machine would only fill three gross tubes a day, while any other machine would fill ten gross. The Deputy-Judge said he did not think there was any express warranty that the machine would do the work mentioned. He found for the plaintiffs, with costs.

New Companies
and Company News.

P.C. means Private Company and R.O. Registered Office.

Revill's Drug Stores (Sandown), Ltd. (P.C.).—Capital 750*l.* Objects: To carry on the business indicated by the title. R.O., 107 High Street, Sandown, I.W.

Bennisons, Ltd. (P.C.).—Capital 8,000*l.* Objects: To acquire the business of a pharmaceutical chemist carried on as "W. Bennison" at 8 Cale Street, Chelsea, S.W.

Stephen Pettifer & Sons, Ltd. (P.C.).—Capital 9,000*l.* Objects: To carry on business as veterinary chemists, manufacturers of agricultural medicines, etc. R.O., Crudwell, Malmesbury, Wilts.

James Cawthorn, Ltd. (P.C.).—Capital 3,000*l.* Objects: To take over the business of wholesale chemists, spice merchants, etc., carried on by the exor. of the late J. Cawthorn at Gateshead.

Robt. J. Standing, Ltd. (P.C.).—Capital 1,000*l.* Objects: To carry on the business of wholesale drysalters, grocers, druggists, manufacturers of tinned goods, polishes, oils and soaps, etc. R.O., Pendle Buildings, Broom Street, Colne.

Bennett & Morris, Ltd. (P.C.).—Capital 2,000*l.* Objects: To carry on business as chemists, druggists, dentists, opticians, dealers in photographic materials, etc. First director: W. G. T. Bennett, chemist and druggist, 21 Catford Hill, London, S.E. 6.

Farley's Infant Food, Ltd. (P.C.).—Capital 5,000*l.* Objects: To take over the business of a manufacturer of and dealer in food products and other commodities carried on by W. B. Trahair, of Plymouth, as "Farleys." R.O., 42 Woolster Street, Plymouth.

A. E. Sleigh, Ltd. (P.C.).—Capital 2,000*l.* Objects: To take over the business carried on at 130 Barkers' Pool, Sheffield, as "A. E. Sleigh," and to carry on the business of manufacturers of and dealers in anatomical, orthopædic, and surgical appliances, hospital requisites, etc.

Surgical Instrument Manufacturers' Association (Incorporated) (word "Limited" omitted from title by licence of the Board of Trade).—Registered as a company, limited by guarantee, not formed for profit, to acquire all or part of the assets of the unincorporated "Surgical Instrument Manufacturers' Association," for the purpose of promoting good feeling between employers and employed, and furthering the interests of the surgical-instrument trade, to promote commerce in relation to the surgical-instrument and appliance industry, to enable associations of surgical-instrument appliance manufacturers to federate by becoming members or associates, etc. The number of members is unlimited, and each member undertakes to contribute, in the event of winding up, such sum as may be required not exceeding 1*l.* The first directors are: A. W. Down, H. T. Maw, E. R. Arnold, E. E. Greville, T. M. Hawksley, E. W. Mayer, J. H. Montague, P. S. King, and A. Watt. R.O., 6 Holborn Viaduct, London, E.C.

Southall Bros. & Barclay, Ltd.—The directors' report for the year ended December 31, 1918, states that, after providing for bad debts, depreciation, excess profits duty, income-tax, and directors' remuneration, there is a balance of profit for the year of 25,764*l.* 9*s.* 2*d.* To this must be added the sum of 13,809*l.* 13*s.* 9*d.*, carried forward last year, making a total of 39,574*l.* 2*s.* 11*d.* Out of this has been paid an interim dividend on preference shares of 2,750*l.*, leaving a balance of 36,824*l.* 2*s.* 11*d.*, which the directors recommend should be appropriated as follows: Second half-year's dividend on Preference shares at the rate of 5 per cent. per annum (paid January 1, 1919), 2,750*l.*; year's dividend on Ordinary shares at the rate of 10 per cent. per annum, free of income-tax, 8,600*l.*; bonus of 1*s.* per share on Ordinary shares, free of income-tax, 4,300*l.*; to be written off goodwill, patents, etc., 3,000*l.*; to be carried to reserve, 3,000*l.*; balance to be carried forward to next account, 15,174*l.* 2*s.* 11*d.* Messrs. A. W. Southall and E. W. Mann retire from the Board, but, being eligible, offer themselves for re-election.

German Chemical Works Dividends.—The following dividends have been paid by pharmaceutical and chemical companies since the war:

	1915	1916	1917
H. & E. Albert, Amöneburg	28	30	30
Berlin Aniline Factory	18	18 + 7	18
Badische Aniline Works, Ludwigshafen ...	20	20 + 8	20
Fr. Bayer & Co., Leverkusen...	20	20 + 8	20
Dr. H. Byk, Berlin	0	5	7
Vereingte Chemische Werke, Charlottenburg	27	27 + 18	45 + 18
Gehe & Co., Dresden	14	20	20
H. v. Gimborn, Emmerich	8	10 + 50 M.	—
Goldenberg, Geromont & Co., Winkel ...	20	20 + 500 M.	20 + 200 M.
Th. Goldschmidt, Essen	12	12	12
Chem. Werke, Grenzack	—	6	15
Chem. Fabrik Griesheim Elektron	16	16 + 60 M.	16
Chem. Fabrik Grünau	7½	10	12
Handelsgesellschaft Deutscher Apotheker	6	6	7
P. Hartmann, Heidenheim	12	12	12
Heine & Co., Leipzig	8	10	15
Chem. Fabrik Helfenberg	9	10	15
Von Heyden, Radebeul	16	25	25
Gebr. Heyl & Co., Charlottenburg	4	4	8
Höchster Farbwerke	20	25	18
Kalle & Co., Biebrich	10	10	10
Lubszynski & Co., Berlin	10	10	15
Lingner-Werke (Odol), Dresden	12	15	17
Verein f. Chem. Ind., Mainz...	30	25 + 5	25 + 5
Verein Chem. Fabr., Mannheim	20	20 + 25 M.	20 + 100 M
Mediz. Warenhaus, Berlin	8	10	10
Moritz Milch & Co., Posen	12	12	12
Von Poucet, Friedrichshain	6	7	—
J. D. Riedel, Berlin	10	12 + 6	16
Saccharinfabs. Fahlberg, List & Co. ...	10	12	15
Blechemballage F. O. Schäfer, Berlin ...	8	10	10
E. Schering, Berlin	12	16	18
Schülke & Mayr, Hamburg	8	8	8
Fritz Schulz, jun., Leipzig	18	23	25
Theodore Teichgraeber, Berlin	5	5 + 1	8
Georg Wenderoth, Kassel	2	6	9
Weiler-ter-Meer, Uerdingen	12	12	12

Industrial Council Conference.

The following is an official report of the conference held on April 4 with representatives of wholesale and retail interests and of trade unions having members employed in the trade to consider the immediate establishment of an Industrial Council for the drug-trade:

The following were present:

Representing the Pharmaceutical Society and Local Associations Executive:

Mr. W. L. Currie (President), Mr. E. T. Neathercoat (Vice-President), Messrs. Cuff, Jenkin, Keall, Rowsell, Wolff, and Waring, and Mr. Glyn-Jones (Secretary).

Representing the Drug Club:

Messrs. P. M. Harvey and C. A. Hill (British Drug Houses, Ltd.), Mr. T. E. Lescher (Evans Sons Lescher & Webb, Ltd.), and Mr. H. Wippell Gadd (Secretary of the Drug Club).

Representing the Drug and Fine Chemical Manufacturers' Association:

Mr. H. R. Arnold (Burgoyne, Burbidges & Co., Ltd.), Mr. W. P. Bowman (Goodall, Backhouse & Co.), Mr. D. Rainey Brown (J. F. Macfarlan & Co.), Mr. A. J. Ewing (May & Baker), Mr. J. Stuart Hills (John Bell, Hills & Lucas, Ltd.), Mr. Benjamin Hirst (Hirst, Brooke & Hirst, Ltd.), Mr. David Lloyd Howard (Howard & Sons, Ltd.), Mr. Thomas D. Morson (T. Morson & Son, Ltd.), Mr. G. E. Pearson (Burroughs Wellcome & Co.), Mr. P. Sparks (Boots Pure Drug Co., Ltd.), Mr. H. Ayscough Thompson (Willows, Francis, Butler & Thompson, Ltd.), Mr. Harold E. Webb (Evans Sons Lescher & Webb, Ltd.), and Mr. P. J. Wigginton (A. H. Cox & Co., Ltd.).

Representing the Wholesale Druggists' Sundries and Proprietaries Association:

Mr. F. J. Smith (Sangers), Mr. A. Jerrold Nathan (Barclay & Sons, Ltd.), Mr. W. C. Stewart (May, Roberts & Co., Ltd.).

Representing the Trade Unions:

Workers' Union: A. Dalgleish.

Amalgamated Society of Pharmacists, Drug and Chemical Workers: Messrs. A. J. Crawley, W. G. Gilbert, W. Greenfield, W. Hawkins, E. R. Jones, E. N. Lloyd, and H. Skinner.

National Warehouse and General Workers' Union: Messrs. A. Boyd, W. Jones, and W. A. Robinson.

Dock, Wharf, Riverside, and General Workers' Union: Messrs. Garmston and E. Wilkinson.

National Amalgamated Union of Shop Assistants, Warehousemen, and Clerks: Messrs. P. C. Hoffman, G. H. Greenfield, and H. Ward.

National Union of General Workers: Messrs. F. Bright and T. Wooder.

At the outset the President of the Pharmaceutical Society welcomed the members of the Conference to the Society's premises, and on his motion Mr. David Lloyd Howard was voted to the chair.

The following resolution was carried *nem. con.*:

That this meeting of representatives of all sections of employers and employés in the drug-trade agree to the immediate formation of an Industrial Council for the drug-trade, and appoint the following as a Committee to take the necessary steps to give effect to this resolution.

It was decided that the names to be inserted in the resolution should be as representing employers (twelve) as follows:

Representing the Drug and Fine Chemical Manufacturers' Association:

Mr. David Lloyd Howard (Howard & Sons, Ltd.), Mr. G. E. Pearson (Burroughs Wellcome & Co.), Mr. D. Rainey Brown (J. F. Macfarlan & Co.), Mr. H. R. Arnold (Burgoyne, Burbidges & Co., Ltd.), Mr. J. H. E. Evans (Evans Sons Lescher & Webb, Ltd.), and Mr. W. P. Bowman (Goodall, Backhouse & Co.).

Representing the Drug Club:

Mr. H. Wippell Gadd (Secretary of the Drug Club).

Representing the Wholesale Druggists' Sundries and Proprietaries Association:

Mr. F. J. Smith (Sangers).

Four representatives to be nominated by the Pharmaceutical Society.

Twelve representatives of the unions to be nominated by the unions.

Mr. Glyn-Jones reported to the Conference that the Council of the Society had passed the following resolution, and explained that its object was to secure adequate representation upon the proposed Industrial Council of assistants who were not as yet members of unions.

That, without prejudice to any unions now catering for assistants, and in view of the difficulty of those unions securing an adequate membership in sufficient time for representation on the proposed Industrial Council, the Pharmaceutical Council be advised to take immediate steps to encourage the formation of a National Association of Assistants, with district branches, for the purpose of securing representation on the Industrial Council of those not at present covered by the unions. That to that end a series of conferences of assistants in retail pharmacies should be held in a number of centres in the country.

The representatives of the unions asked for an assurance that the Society's representative at the proposed conferences would do nothing which would give preferential treatment to any union or to prejudice the organisation by trade-union machinery of the assistants engaged in the retail trade, and that any proposed organisation of assistants would be free from any interference on the part of any employers or employers' organisations.

This assurance was given.

Since the meeting the Pharmaceutical Society has nominated the following as their four representatives:

Mr. W. L. Currie (President), Mr. E. T. Neathercoat (Vice-President), Mr. Keall, and Mr. Rowsell.

The group of unions nominated the following:

Messrs. Skinner and Hawkins (Amalgamated Society of Pharmacists, Drug and Chemical Workers).

Messrs. Kelly and Dalgleish (The Workers' Union).

Messrs. Ward and Hoffman (Amalgamated Union of Shop Assistants, Warehousemen, and Clerks).

Messrs. Robinson and Jones (National Warehouse and General Workers' Union).

Messrs. Wilkinson and Garmston (Dock, Wharf, and Riverside Workers).

Messrs. Bright and Wooder (National Union of General Workers).

The full Committee of twenty-four is thus completed.

Mr. Glyn-Jones and Mr. A. Boyd are acting *ex-officio* members of the Committee respectively on behalf of employers and employés.

Strophanthus Kombé.

Although this seed is still official in the British Pharmacopœia, the pure seed has been unobtainable in the market for some years, no sample containing more than 30 per cent. of genuine Kombé having come under the notice of the writer. This has been chiefly due to the low price paid for the drug. The quantity used is very small, and it is not worth while to go to the extra cost of labour to collect the genuine seed alone at the price it realises (about 3*s.* 6*d.* per lb.). The price that would pay is about double the price that is usually paid, and to make sure of a regular supply 10*s.* per lb. would not be too high a price. It would be far more satisfactory to import the seed in the pod, since the testing of one seed from each pod would ensure the genuine character of the rest of the seed; but the difficulty of cleaning the seed from the awns in a London warehouse, where a current of air would be necessary to drive the fluff away from the operator, is a reason that leads to the seeds removed from the pod being sold in preference. But the resemblance of the seed to species that do not contain strophanthin, such as *Strophanthus Courmontii* and its varieties, is so close as to defy detection by the ordinary eye, and the green reaction of the seed with sulphuric acid of a definite strength can alone be relied on. It is to be regretted that a competent inspector of drugs is not appointed by Government to prevent adulterated drugs from entering commerce in this country. The importance of having in commerce a tincture of uniform strength is evident from the fact that the one official in the 1914 B.P. is four times the strength of that of the 1898 B.P., in order to approximate to the Tinctura Strophanthi of the International Agreement. It is very necessary for prescribers and dispensers to remember this fact, particularly for pharmacists, when a prescription written before 1898 is brought in to be dispensed, since the dose given in the B.P. 1914 is only one-third of that ordered in the 1898 B.P. Now that pure seed is obtainable the minimum B.P. dose of two minims is to be recommended for trial at first, for there is little doubt that the larger dose is due to the fact of the uncertainty of the strength of the seeds hitherto obtainable. This has evidently led to the United States Pharmacopœia allowing the use of the seeds of *S. hispidus* as an alternative, as these are rarely, if ever, mixed with the seeds of other species.

Tannin from Mangrove-barks.—The Australian Advisory Council of Science and Industry has appointed a special Committee to investigate the tannin contents of the different mangroves available in Queensland, and the costs and commercial prospects of the industry. Mangroves are very plentiful on the northern coast of Australia and in Papua.

"I saw that there were two forces—one the materialism of the devilish war machine of Germany, with its policy of blood and iron, bribery and espionage all over the world, against which there was no organisation; the other was a force greater even than that of the German war machine, because it was not materialistic—a spiritual, an eternal force, the idea of justice."—*Louis Raemaeker.*

Chemical Society.

Anniversary Dinner.

A brief reference was made in the *C. & D.*, April 5, p. 62, to the anniversary dinner of the Chemical Society, held at the Connaught Rooms, London, March 27, Sir William J. Pope, K.B.E., President, in the chair. There were some 360 Fellows and guests present. Lord Moulton (Director-General of Explosives Supplies), in proposing the toast of "The Chemical Society," stated that our real enemy in the war was Germany, who had devoted herself *par excellence* to chemistry. There was not the least doubt that the dogs of war were held in leash until the great installations for producing ammonia and nitrate on the vast scale needed for war were complete. Germany knew that this war would be on an enormous scale, and looked to the large chemical installations for the manufacture of dyes and other chemical products to provide the necessary ammunition. Rendered confident by this enormous preparation for the supply of munitions of war, by the advances made in artillery, and by her decision to violate The Hague Convention by using poisonous gases, she thought she had but to strike heavily enough and world-supremacy was hers. He contrasted Germany's state of preparedness for war in 1914 with that of England, where there was no means of making ammonia beyond that resulting as a by-product of gas in the coke-oven. We had no means of turning that into nitric acid, and were destitute of any home source of nitric acid or nitrates. Germany had gigantic chemical factories with standardised plants, whereas we had practically no factories that could be devoted to warlike purposes. It was marvellous to think that, owing to the response of English chemists, by the time the war was at its height England was at least Germany's equal, if not her superior, in chemical warfare, and the chemists were justified in claiming that it was they who had had to resist the enemy. It must be realised that a nation must be so self-contained that it cannot be cut off from the essential means of defence, and if we are wise peace will always continue its work with an eye to the possibilities of war. To the chemist the future prospects are limitless; the whole of the great source of power, of chemical affinity, the discovery of new substances, shortening of processes and economy—all these lie in his hands. Chemistry has been drawing nearer to her sister, Physics, and with these two working hand in hand the triumphs to be won are unlimited. Discoveries come from most unexpected quarters, and Lord Moulton said he felt particular pleasure in proposing prosperity to the Chemical Society, because the Society exists for the general advancement of chemical science, the questioning of Nature as to how it will behave in new circumstances, the recording of the answers, and the study of the lessons they teach. Anyone who works blindly for utility is apt to get into a *cul-de-sac*; the right thing is to work for knowledge. Lord Moulton then referred to the eminent services rendered to the country by Sir William Pope, not only in the simpler problems of explosives, but in the difficult problems dealing with poisonous gases and in the realm of photography. In replying, Sir William Pope stated that the Chemical Society was an institution of which the chemist was justly proud. It is the oldest chemical society in the world; it numbers some 3,500 members, and, though nearly eighty years of age, it was not the age of decrepitude; and whilst in the past the constitution and procedure of our Society has served as a mould to everything that has been done in its honour by sister societies, it may be justly claimed that the Chemical Society is still in the van; that it is still prepared to produce new methods for stimulating scientific work and scientific effort. He referred to Lord Moulton as the greatest chemical manufacturer of this or any other day. During the past four years Lord Moulton has been engaged in building up a huge chemical production surpassing anything achieved in the past which has resulted in the ample supply of explosives and noxious gases. Chemists feel honoured at having been made an essential part of the stupendous weapon for destruction in the forging of which Lord Moulton had played so large a part. The resources of science had been utilised in the war without scrutiny of cost, and the result had been worth the expenditure. Unless the same resources are used in the struggle before us to develop and promote, not only applied, but pure science, then our country will fall behind. It lies with our leaders to determine to what extent science will exist in the coming great wave of intellectual and material progress throughout the world. The nation must be prepared to pour out treasure into our educational establishments for securing the potential young energy of the country and for directing it into scientific channels, and money must be poured into our universities and colleges to stimulate scientific research. Whether it be pure or applied knowledge, the dividend paid will be enormous. The great object we have in view is the increase of human knowledge, and this can be achieved only by the expenditure of large sums of money. Professor H. E. Armstrong, in proposing the toast of "Our French Colleagues," referred to previous exchanges of courtesies between French and English chemists, and whilst this was the first time that the French Chemical Society had been officially represented at our anniversary dinner, he hoped that it would become a regular practice in the future. He referred to the part played in the science of chemistry by Lavoisier and other distinguished Frenchmen. In replying, Dr. C. Poulenc expressed the great pleasure felt by himself and his colleagues in being invited to take part in the first public function held by the Chemical Society since 1914, for they realised that such an invitation set yet another seal on the bond of sympathy existing between the two nations. The President then proposed "His Majesty's Forces," to which Lieut.-General Sir W. T. Furse (Master of the Ordnance) replied. Sir James J. Dobbie, President-elect, in proposing the toast of "The Guests," referred to the pleasure the Society felt in seeing such a representative gathering of guests, and though it might seem difficult to bring them all into one toast, owing to the interests they represent being so diverse, the chemist had been closely associated with them all during the period of the war. The war had forced upon us the closer association between the man of science and the man who applies science than has ever been the case before; this association has been very largely responsible for the victory achieved, and must continue to assist in building up again the prosperity of the country. The Right Hon. Herbert A. L. Fisher, in responding for the Board of Education, stated that if Huxley were with us now he would acknowledge that the cause to which he dedicated his life had triumphed. While it is true that arrears have still to be made up; that we want a great deal more money for science, more teachers and more learners, in the main the battle had been won. From the time of Napoleon onwards there has been a consensus of opinion that national power is at any rate to some extent dependent upon chemists, and now it is realised more than ever. The best form of protection is not more tariff but more chemistry. Sir Aston Webb (President of the Royal Academy of Arts) also replied. Sir Joseph J. Thomson (President of the Royal Society) replied for science, and stated that English science could look back with confidence on its record during the war. Scientists had learnt many things by their experience in the war, and not the least of these has been sympathy with the difficulties of those engaged in the application of science to industry.

Ordinary Meeting.

At the meeting of the Chemical Society, held on April 3, the new President, Sir James Dobbie, was heartily welcomed on taking the chair. Mr. Harold King, M.Sc., of the Wellcome Chemical Research Laboratories, read a paper on *The Resolution of Hyoscine and its Components, Tropic Acid and Oscine.* Hyoscine, also known as scopolamine, is the tropyl ester of an aminoalcohol, oscine. An improved method for the resolution of the acid constituent, tropic acid, by means of the two alkaloids, quinine and quinidine, was described. The basic portion, oscine, proved more refractory, but was eventually resolved into *d*- and *l*-oscines by means of tartaric acid. These results indicate the possible existence of four isomeric hyoscines, each being built up of two optically active components—

l-Tropyl *d*-oscine.	*d*-Tropyl *l*-oscine.
l-Tropyl *l*-oscine.	*d*-Tropyl *d*-oscine.

By resolution of inactive hyoscines, by means of bromocamphorsulphonic acid, the hitherto unknown *dextro*-hyoscine was isolated. This proved to be the dextro modification of the well-known therapeutically valuable *lævo*-hyoscine of commerce. By re-combination of these two forms, the racemic base and its salts were obtained, this synthetic method affording a guarantee of their purity. On hydrolysis *lævo*-hyoscine gave *l*-tropic acid and *inactive* oscine, the latter being invariably inactive when either bases or acids were employed for the hydrolysis. In contradistinction to this, benzoyl *d*-oscine, independent of the hydrolytic agent employed, gave optically pure *dextro*-oscine. Furthermore, the active oscines obtained by resolution of oscine were also stable to acid and alkali. These results are consistent with the representation of *d*- and *l*-hyoscines as partial racemic esters, thus *l*-hyoscine = *l*-tropyl *i*-oscine, *d*-hyoscine = *d*-tropyl *i*-oscine.

Corner for Students.

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C. 4."

Report on the March Analytical Exercise.

The powder distributed to students on March 11 consisted of equal parts by weight of manganous carbonate, tartrate, and oxalate. The calculated composition of such a mixture is:

Mn	33.8
CO_3	17.4
$C_4H_4O_6$	20.7
C_2O_4	16.4
H_2O	11.7
	100.0

The powder also contained, as impurities, well-marked traces of calcium and magnesium, with faint traces of iron and ammonium and of the hydrochloric- and nitric-acid radicals.

Samples of the powder were distributed to forty students, and twenty-four reports were sent in for examination. Two correspondents failed to detect the manganese, while the failures in the detection of the acid radicals were: Carbonic, 4; tartaric, 8; oxalic, 8. In seven cases the evolution of water when the powder was gently heated in a dry test-tube was not reported.

This exercise was one in which the identification of the acid radicals was calculated to present the principal difficulty, since it seemed unlikely that any correspondent should fail to detect the manganese, which constituted one-third of the mixture. In the event, a number of students correctly solved the problem of the acid radicals, without encountering serious difficulty, while manganese was actually missed in some isolated instances.

The detection of the various substances present as impurities (which were more numerous than usual) proved to be the most troublesome part of the analysis, and no single student succeeded in establishing the presence of them all. Iron, a chloride, and magnesium were the impurities most frequently reported, but so far as the last-named is concerned it is practically certain that in almost every instance the reaction upon which the report was based was due in part to manganese, so that conclusive proof that magnesium was present was not really furnished. In the systematic analysis of substances containing manganese, this metal is not wholly removed from solution by the usual routine procedure, and the traces which remain behave with sodium or ammonium phosphate just as magnesium does. Apparently the only simple way to eliminate the manganese completely is to precipitate it from an alkaline solution by means of chlorine or bromine water. When this was done in the present analysis, the filtrate still gave with ammonium phosphate a slight but distinct precipitate due to magnesium.

The filtrate from the zinc group did not readily give a precipitate with ammonium carbonate, but a slight precipitate was produced by ammonium oxalate, and when this was dissolved in hydrochloric acid and a drop of the solution was heated on a platinum wire a distinct calcium coloration was imparted to the Bunsen flame.

That a trace of the nitric-acid radical was present was proved by a slight indication, recognisable after a short time, when the test with ferrous sulphate and sulphuric acid was carefully applied.

The trace of an ammonium compound was only recognisable when the test for it was applied with the often-described precautions for securing delicacy of reaction.

Many students are either unaware of the fact, or if aware of it they ignore it, that the cobalt nitrate test on charcoal is applicable only to residues which are white. In the present analysis the test was applied in many cases to the dark-brown residue left when the powder was strongly heated, although it was quite inappropriate and could not furnish useful information.

Prizes.

The First Prize for the best analysis has been awarded to Frank Lightfoot, Preston Brook, Warrington.

The Second Prize has been awarded to Elizabeth Sim, Cemetery Lodge, Kelso.

First Prize.—Any scientific book that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Second Prize.—Any scientific book which is sold for about five shillings may be taken as a second prize.

The students to whom prizes are awarded are requested to write at once to the Publisher naming the book or books they select.

Marks Awarded for Analyses.

1. *Competitors who are unqualified:*

F. Lightfoot (1st Prize)	94	Pulvis	69
E. Sim (2nd Prize)	93	Jack Tar	66
B. B. Dutta	92	Ferrum	53
Melonia	92	Joshua	52
Hirudo	91	Physics	51
Mist	91	George	44
F. L. Taylor	90	Secundus	43
Jayjay	86	T. E. P.	36
Sigs	86	Heroin	33
Mackworth	84	Neon	24
Analyte	72		

2. *Competitors who are qualified:*

Lawton	70	Tyrone	91
Pilula	65		

To Correspondents.

E. Sim.—Note that it is quite incorrect to call the test for manganese with nitric acid and lead peroxide, "Volhard's test." It is really Crum's test. (See "Chemical News" for March 24, 1916, p. 133.)

Hirudo.—Evolution of carbon dioxide on heating with dilute sulphuric acid indicates a carbonate only—not an oxalate. Tingle's test for nitrate did give an indication of the presence of a nitrate, but this was interfered with to some extent by the colour of the manganese compound produced by the reaction.

Mist.—By taking the steps that you employed to remove the manganese completely, you were the sole competitor who placed the presence of a trace of magnesium beyond a doubt.

Sigs.—The green flame coloration which led you to suspect and to report barium was due to manganous chloride. This salt imparts a fine green coloration to the Bunsen flame.

Mackworth.—The carbonate present was insoluble in water, hence the aqueous extract from the powder did not contain a carbonate, and any precipitate this extract may have given with magnesium sulphate had nothing to do with carbonates. In point of fact, we failed to confirm the formation of such a precipitate on repeating your experiment. *Re* green flame, see the reply immediately preceding.

Pulvis.—The proportion of carbon dioxide evolved when the powder was heated with dilute sulphuric acid was relatively large, and the test with calcium hydroxide should have given a well-marked result if carried out with moderate care.

Jack Tar.—You appear to have entirely overlooked the fact that the precipitate which you proved by conclusive tests to contain manganese might also contain zinc; at any rate you do not report any tests applied to prove zinc either present or absent. Tartrate—not tartarate.

Ferrum.—The behaviour of the powder when heated by itself strongly suggested salts of organic acids. The reducing effect upon permanganate, which you observed, was due to the oxalate and the tartrate, and it ought to have suggested the former, at least, to you as a constituent to be particularly sought for.

Joshua.—In preparing a solution to be tested for acid radicals it is probable that you did not boil with water and sodium carbonate sufficiently long to decompose any considerable proportion of the sparingly soluble manganous tartrate and oxalate; and hence your failure to obtain reactions due to the corresponding sodium salts when you carried out the systematic testing of the solution.

Physics.—The method you adopted of heating the powder to decompose salts of organic acids and then dissolving the residue in hydrochloric acid to obtain a solution to be tested for metallic radicals was analytically unsound, since arsenic and mercury, if present, might have been driven out completely. The ignition should not be carried out until any precipitate yielded by hydrogen sulphide in acid solution has been removed and the filtrate has been evaporated to dryness.

George.—Practice should soon restore your confidence in your analytical work. Do not test for alkalis solely in the aqueous extract from an unknown substance; there are compounds of potassium and sodium which are insoluble in water, and there are often soluble substances in an aqueous extract which would yield wholly misleading results with the reagents added as tests for the alkalies.

Secundus.—If you tried the borax bead test in both oxidising and reducing flames you ought to have obtained

indications of manganese. Perhaps you employed the reducing flame only.

Heroin.—You give no information as to the mode of preparation of the solutions to which you applied tests for acidic radicals, yet this information is indispensable in estimating the value of your conclusions.

The Analytical Tournament.

The inclusion of the results of the present analysis has altered the relative positions of some of the competitors near the top of the list as published last month. The following, amongst whom the prize-winners may be looked for, have obtained aggregates exceeding 360 for the five analyses:

Amethyst	436	Lawton	374
Mist	409	Joshua	368
Jayjay	398	Physics	364
Tyrone	398	Melonia	361

By inadvertence some of the aggregates published last month were slightly understated. The figures given above are the correct aggregates to date.

Relaxation of Export and Import Prohibitions.

The following alterations in the existing prohibitions of export have been made by the Board of Trade since our last published list (*C. & D.*, March 29, p. 66):

Headings Removed from One List to Another.

From "A" to "C" list: Cereals, prepared foods derived wholly or partly from, containing milk. From "A" to "B": Malt sugar (maltose) and articles and preparations containing malt sugar; potassium bicarbonate and mixtures containing potassium bicarbonate.

Headings Deleted.

(B) Potassium bicarbonate and mixtures containing potassium bicarbonate.

(B) Potassium cyanide and mixtures containing potassium cyanide.

(B) Potassium perchlorate.

(B) Potassium prussiates and mixtures containing potassium prussiates.

(B) Potassium chlorate and mixtures containing potassium chlorate.

These are deleted from the list of prohibited exports in view of the fact that they are already covered by the heading:

(B) Potash salts and mixtures containing such potash salts not otherwise prohibited.

Export of Cod-liver Oil and Malt Extract.

The Board of Trade are advised that the demand for certain medicinal preparations at present exceeds the supply, and in view of the importance of their conservation for the purpose of combating the influenza epidemic it has been found necessary to place the following articles by name on Section "A" of the prohibited list as from March 27: Cod-liver oil and preparations containing cod-liver oil; malt extract and preparations containing malt extract.

Consolidated List of Restrictions.

The "Board of Trade Journal" of March 27 contains a special supplement giving full details of the existing prohibitions upon imports. The supplement contains three appendices: (A) A list of general licences in operation on March 25, 1919; (B) the principal articles free from import restrictions; and (C) prohibited articles for which applications must be made to authorities other than the Department of Import Restrictions.

Gold Exports and Imports.

An Order in Council prohibiting the exportation of gold coin and bullion to all destinations was issued on April 1. The Order will also provide for the transfer of gold leaf and liquid gold from List "A" (*i.e.*, prohibited to all destinations) to List "O" of prohibited exports (*i.e.*, prohibited to certain neutral destinations in Europe). It is also announced that as from the same date a general licence will be issued to permit of the import of any quantity of gold bullion.

The Businesses of Frank I. Hibbert and Harold E. Annison & Co., Ltd., have been amalgamated with that of Ralph L. Fuller & Co., Ltd., 21 Harp Lane, London, E.C. 3, who are associated with the American house of Ralph L. Fuller, Inc., New York. Mr. Ralph L. Fuller is well known throughout the American drug and chemical trades as the head of the organisation, and has controlling interests in three or four manufacturing houses in the U.S. and Canada.

Personalities.

Mr. Edward P. Rogers has joined the representative staff of J. & E. Atkinson, Ltd.

Mr. J. H. Collins, chemist and druggist, Mansfield, has been reappointed an overseer of the poor for the borough.

Mr. John Stanser, chemist and druggist, Beverley, has been elected to fill a vacancy on the Beverley Town Council.

Mr. Robert Gledhill, chemist and druggist, Dewsbury, has been re-elected a member of the Dewsbury Board of Guardians.

Mr. W. B. Nelson, Ph.C., has taken up an appointment on the staff of Allen & Hanburys Ltd., at their Bethnal-Green Works.

Lord Leverhulme, chairman of Lever Bros., Ltd., was on April 3 invested with the livery of the Gardeners' Company of the City of London.

Mr. Thos. Edmondson, pharmacist, Penrith, has been returned at the head of the poll for the South Ward of the Penrith Urban District Council.

Mrs. Idris, wife of Mr. T. H. W. Idris, J.P. (chairman of Idris & Co., Ltd.), has been elected a member of the St. Pancras Board of Guardians.

Mr. Albert Timmins, chemist and druggist, Murray Street, West Hartlepool, has been returned at the head of the poll as a Guardian for the North Ward of West Hartlepool.

Mr. D. A. Bryan, chemist and druggist, Penmaenmawr, has been placed second of eight candidates in an election for three vacancies in the Penmaenmawr Town Council.

Mr. J. S. P. Smith (R. Fox Smith's Exors., chemists, Barton-on-Humber) has been returned second of fifteen candidates for nine seats on the Barton Urban District Council.

Mr. J. U. Thornton, a director and representative of the Iron Ox Remedy Co., Ltd., was on April 5 elected a member of the Sale Urban District Council by the largest majority ever obtained by a candidate for this Council.

Mr. William Rudderham, who for many years has been general manager, and since 1915 a director, of Coleman & Co., Ltd., Norwich, has been appointed managing director of the company in place of the late Mr. W. O. Snelling.

Mr. Chas. L. Huisking, president of Chas. L. Huisking, Incorp., drug merchants, 5 Platt Street, New York, is visiting this country on a business trip. He is expected to arrive at the end of April, and will stay at the Savoy Hotel, Strand, W.C.

Mr. J. H. Toplis, chemist and druggist, Chesterfield, Hon. Secretary to the Chesterfield and District Pharmacists' Association, was on April 7 elected Councillor for the Old Brampton and Walton Rural District Council, obtaining the second place at the poll.

Mr. A. E. Sykes, chemist and druggist, New Plymouth, New Zealand, is at present in London on a visit. Mr. Sykes proposes returning home *viâ* the United States, taking with him a son who has seen upwards of two years' service with the New Zealand Overseas Contingent.

Mr. Thomas Brewis, chemist and druggist, Landport, was on April 2 the guest of his colleagues on the Portsmouth Board of Guardians in honour of his seventieth birthday. Mr. Brewis, in the course of his reply to several complimentary speeches, remarked that he had been a Guardian for twenty-four years.

Lieutenant F. W. Smith, B.Sc., A.I.C., has been demobilised, and has joined the staff of Mr. John Lorimer, 10 City Road, London, E.C. When war broke out Lieut. Smith was training at the University College, but he volunteered at once, and has been in the Army for four and a-half years. He was badly wounded in France in 1916, but has now practically recovered, and is travelling for Mr. Lorimer in London, and later will go all over the country.

The Name of Mr. David A. Evans, chemist and druggist (proprietor of Steele & Marsh, chemists, Milsom Street, Bath), has been brought to the notice of the Secretary of State for War for services rendered in hospital work. Mr. Evans has acted as honorary pharmacist at the Lansdown Auxiliary Hospital, Bath, ever since it was organised, and has lectured to a Red Cross Detachment on poisons and other subjects. Mr. Evans, who is President of the Bath Pharmaceutical Association, was presented with the Red Cross Society's Diploma of Honourable Service in March.

Hospital Amalgamation.—The Royal Ear Hospital, Dean Street, London, W. 1, will shortly be amalgamated with University College Hospital.

Birth.

Walker.—At 77 King Street, Castle Douglas, on April 2, the wife of Fred Walker, chemist and druggist, of a daughter.

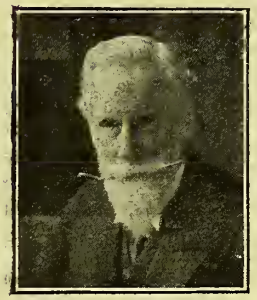
Marriage.

Dickinson—Haver.—At St. Matthew's Church, Newcastle-on-Tyne, on April 3, by the Rev. G. C. Hall, Kenneth Shallcross Dickinson, Ph.C., F.C.S., etc., Chester and North Wales College of Pharmacy, second son of Mr. David Dickinson, chemist and druggist, Hoole, Chester, to Eleanor B. Haver, L.R.A.M., only daughter of Mr. A. H. Haver, 122 Rye Hill, Newcastle-on-Tyne.

Deaths.

Clapham.—On March 24, Mr. Frederick George Clapham, chemist and druggist, aged fifty-eight. Mr. Clapham was for some years in business at Farnham, Surrey, and was previously manager of a pharmacy in Cape Colony, where he enrolled for military service during the South African War. More recently he became a member of the 23rd Surrey V.A.D.

Crookes.—At his residence, 7 Kensington Park Gardens, London, W. 11, on April 4, Sir William Crookes, O.M., LL.D., D.Sc., F.R.S., aged eighty-six. Sir William Crookes was born in London on June 17, 1832. A hint of the brilliant career that awaited him may be found in the fact that in 1851, three years before he received his first appointment, he published a paper on the selenocyanides. He studied at the old Royal College of Chemistry, Hanover Square; after leaving that institution he was appointed, in 1854, an assistant in the meteorological department of Radcliffe Observatory, Oxford, and, in the following year, Professor of Chemistry at the Training College, Chester. Having made his historic discovery of thallium in 1861, he began to devote himself chiefly to research. To that discovery all his later investigations can be traced, including the enunciation of the theories regarding radiation—theories that may be said to have revolutionised former chemical conceptions. Sir William Crookes founded the "Chemical News" in 1859, and remained its proprietor and editor until his death; he was also editor of the "Quarterly Journal of Science." For eight years he was mainly occupied in research on the atomic weight of thallium; and for a long period he carried out daily analyses of the waters supplied to the Metropolis. He became a Fellow of the Chemical Society in 1857, and was its President from 1887 to 1889. He has also been President of the British Association, of the Institute of Electrical Engineers, of the Society of Chemical Industry, and of the Society for Psychical Research. He was knighted in 1897, and received the Order of Merit in 1910. In 1913 he was elected President of the Royal Society (of which he already held the Royal, Davy, and Copley medals); he was the first chemist since Sir Humphry Davy to occupy that position. Replying to the toast of "The Royal Society", at that year's annual dinner, he recalled the fact of having heard Michael Faraday lecture in 1850, and mentioned that the page of the Society's book on which he had signed his name in the 'sixties bore also those of Tennyson, David Livingstone, Huggins, William Jenner, and Archibald Geikie. Sir William Crookes married in 1856, and had a family of four sons and one daughter. Lady Crookes predeceased him in 1916. A complete list of the distinctions awarded to Sir William Crookes would probably comprise the names of most of the scientific societies of the world. It must here be briefly recorded that among them were those of Doctor of Science in six universities, and honorary member of many British and foreign learned bodies, including the Pharmaceutical Society of Great Britain. In addition to the discovery of thallium (an early reference to which was reprinted in The Chemist and Druggist, I., 1913, p. 502), he will be remembered in the history of science by much original work of the first importance—*e.g.*, the invention of the spinthariscope (1903) and "anti-glare glasses" (*C. & D.*, II., 1914, p. 86). He was also the author of several text-books and monographs; among them may be mentioned "Select Methods in Chemical Analysis," first published in 1871, and reaching its fourth edition in 1905; "Dyeing and Tissue Printing" (1882); and "The Wheat Problem" (1899), the last-named of which embodies his well-known views on the fixation of atmospheric nitrogen as an aid to an increased wheat-supply. When, soon after the outbreak of the European war, the barbarities of Germans and the manifesto issued by German scientists rendered it imperative for British men of science to formulate their attitude to this development, Sir William Crookes was one of the signatories to the dignified letter of protest that was issued (*C. & D.*, II., 1914, p. 564). It was almost the last public act of a career devoted to the highest ideals.



Sir William Crookes, O.M.

Galbraith.—At 25 Kelly Street, Greenock, on March 30, Mr. Thomas Hunter Galbraith, chemist and druggist, aged thirty-nine.

Haynes.—As briefly recorded in our last issue (p. 57), Mr. Edward Haynes, chemist and druggist, Honiton, died on March 29 after a very brief illness. Mr. Haynes, who was fifty-five years of age, had for the past three years carried on business with but little assistance, having given both his sons to the service of their country; and there is no doubt that the strenuous work entailed by this sacrifice undermined his health. He will be much missed in the town and neighbourhood.

Head.—At Whitworth, Rochdale, recently, Mr. John Head, chemist and druggist, aged sixty-seven. Mr. Head commenced business some forty-five years ago at Millgate, Facit, and subsequently opened at 465 Market Street, Whitworth. He was closely identified locally with the Wesleyan Church, in which he had filled practically all the offices open to laymen. Mr. Head, who had been in failing health for the past twelve months, is survived by a widow and three daughters.

Lateward.—At 743 Oldham Road, Newton Heath, Manchester, on March 30, Mr. John Richard Lateward, chemist and druggist, aged seventy-two.

Long.—The death occurred in India, on March 26, of Mr. Theophilus Henry Beavan Long, Ph.C., senior representative of Burroughs Wellcome & Co. in that country. Mr. Long was apprenticed to his father, the late Mr. Henry Long, chemist and druggist, Hove. He passed the Major examination in 1875, and for some time was with Strickland & Rowe, South Kensington, and with John Bell & Co., Oxford Street, London, W. He afterwards travelled in France, Germany, Switzerland, and Italy, and also acted as analyst to an exploring party in Syria. After further experience as manager to A. John & Co., Agra, from 1894 to 1899, Mr. Long joined the staff of Burroughs Wellcome & Co. as a foreign representative. During his association with the firm he visited practically every country in the East. Full details of his last illness have not yet been received, but it is known that he contracted influenza some time ago and underwent an operation early in March. His genial personality and charm of manner gained him many influential friends in India, where he will undoubtedly be greatly missed.

Mr. T. H. B. Long, Ph.C.

Maltby.—At Llangollen, on March 26, Mr. William John Maltby, chemist and druggist, 1 St. Giles Avenue, Lincoln, aged fifty-seven. Mr. Maltby, who was the only son of the late Alderman Maltby, J.P., Lincoln, was taken ill while travelling for his firm. He was well known in Masonic circles.

Robinson.—At The Mall, Ramelton, co. Donegal, on April 3, Winnifred Frances, wife of Mr. William Robinson, Ph.C., The Medical Hall.

Vince.—At Halton, Lancaster, on April 7, Elsie, only daughter of Mr. James Vince, chemist and druggist (Vince & Co., chemists, Cheapside, Lancaster), aged thirty-seven. Much sympathy is felt for Mr. Vince, whose daughter's death was the result of injuries caused by a fall at his residence.

Woodcock.—At Penrith, recently, Mr. James Woodcock, representative of N. W. Mitchell & Sons, Ltd., cork merchants, Dod Street, London, E. 14. Mr. Woodcock, whose genial personality was familiar in Scotland and the North of England, died as the result of a sudden seizure at his hotel.

Trade Notes.

Shampoo-powders are among the attractive lines referred to in the advertisement of W. B. Cartwright, Ltd., Rawdon, near Leeds.

Tablets in Bulk.—Watson & Co., tablet manufacturers, Quorn, Loughborough, advertise special lines in tablets which are supplied in bulk.

P. D. & Co.'s List.—Parke, Davis & Co., 50-54 Beak Street, Regent Street, London, W. 1, have issued an interim list for 1919 giving the prices only of their products. Chemists should write for a copy of the list if they have not already received one.

Optical Goods.—The Elliott Optical Co. (Guy E. Druiff), 104 and 105 Great Saffron Hill, London, E.C. 1, explain to the optical trade that the "change over" from war work is now completed, and the company has caught up in the optical prescription business.

The Association of Manufacturing Chemists, Ltd., 32 Kimberley House, Holborn Viaduct, London, E.C. 1, enumerate the advantages of their organisation for collecting accounts, supplying replies to status inquiries, and other drug-trade financial and business matters.

Swiss Trade Exhibition.—The third Swiss Annual Industries Fair will be held at Basle from April 24 to May 8. Visitors can obtain particulars as to travelling and passports from Mr. H. Martin, First Secretary and Commercial Adviser to the Swiss Legation, 32 Queen Anne Street, London, W. 1.

Indian Perfume Brick.—Albert Willis & Arthur, Ltd., 6 Mortimer Street, London, W., advertise in this issue the Indian perfume brick. This is a well-made compressed block, highly perfumed and intended to be placed in the wardrobe to keep away moth. Each brick sells at 6*d.* Showcards and price-tickets are supplied.

Pre-war Prices.—Hertz & Co., 9 Mincing Lane, London, E.C. 3, make a point of selling at pre-war prices such articles as Russian liquid paraffin, brilliantine oils, petroleum jelly, paraffin waxes, Haliflor essences, one-drop perfumes, and Florozon sprayers and essences. The firm offer to send samples and prices on application.

Straw-hat Cleaner.—Ayrton, Saunders & Co., Ltd., 34 Hanover Street, Liverpool, advertise their straw-hat cleaner in this issue, and have sent us a specimen of the preparation. It is packed in attractive envelopes with an effective design in grey and yellow, and a half-tone picture of a straw hat. The envelopes are mounted on cards for hanging up in the shop. The prices and other particulars will be found in the company's announcement.

Alliance Drug List.—The Alliance Drug and Chemical Co., 34 Leadenhall Street, London, E.C., send us a copy of their new detailed price-list dated March. This is an up-to-date list, containing prices of all the usual drugs and chemicals found in a chemist's shop. In addition there are given particulars as to business terms, duty-free alcoholic preparations for export, post and freight charges, passenger-train parcels regulations, equivalents of metric weights, etc.

Quencholeen Lemonade.—The Violiv Manufacturing Co., 26 Haymarket Terrace, Edinburgh, send us a sample of Quencholeen lemonade, which is being advertised in this issue. The lemonade is in powder form, each powder being sufficient to produce a tumbler of effervescing beverage. The powders sell at 1½*d.*, or 1*s.* 6*d.* in cartons of thirteen. The trade terms are given in the advertisement, and we are informed that showcards and window bills are supplied with every order.

British Medical Association Exhibition.—Burroughs Wellcome & Co., Snow Hill Buildings, London, E.C. 1, have a striking exhibit of fine chemicals at the exhibition organised in connection with the meeting of the British Medical Association in London. This firm pioneered the attack on the German fine chemical monopolies nearly twenty years ago, and made pilocarpine, atropine, eserine, and homatropine long before the war. The range now includes aspirin, salicylic acid, sodium salicylate, hexamine (utropine), phenacetin, acetanilide, sodium glycerophosphate, benzamine salts (replacing β-eucaine salts), halazone, "tolamine" (chloramine T.), adrenalin, emetine, emetine bismuthous iodide, emetine hydrochloride, and "ernutin" (synthetic ergot), also "kharsivan" and "neokharsivan." Of topical interest at a time when influenza is one of the dominant factors in daily life is the exhibition of influenza vaccines, prepared in the Wellcome Physiological Research Laboratories. The comprehensive display includes a beautiful array of "Tabloid" medicine chemists and cases, and the useful and compact "Tabloid" first-aid equipments.

Dr. Muller's Nutrient.—The Muller Laboratories, Ltd., manufacturing chemists, 144 Albany Street, London, N.W. 1, are advertising in this number the Dr. Muller Nutrient, which is a tonic food in capsule form. The feature about the nutrient is that it is especially employed for strengthening the nerves when they have become overtaxed through strain and overwork—a condition which is much in evidence at the present time. The company are this week making a special bonus offer, of which particulars are given in our advertisement pages. The price of the Muller Nutrient is protected at 3*s.* under the scheme of the Proprietary Articles Trade Association. The nutrient is eaten and masticated like ordinary food, the following being the directions for use:

The tablets should be held in the mouth for a few minutes to soften the outer coating, then thoroughly masticated.

For Mild Cases.—One tablet on rising and one about half an hour before or after each meal of the day as may be most convenient.

For More Serious Cases.—Commence by taking six tablets per day as follows: Two on rising in the morning, and one about half an hour before or after each meal of the day with the exception of dinner, when two should be taken. Continue this quantity until your progress warrants you in reducing the number, after which the instructions for mild cases will apply.

For Severe Cases, or where nerve trouble is of long standing, commence by taking two tablets on rising and two about half an hour before or after each meal of the day (eight tablets per day). Continue this quantity for about ten days. Then two on rising and one about half an hour before or after each meal of the day with the exception of dinner, when two should be taken (six tablets per day). Continue this for a further period of about ten days, then (or whenever your progress may warrant you doing so) continue the treatment as per above instructions for mild cases.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped.

(*From "The Trade-marks Journal," March 19, 1919.*)

"Elephant Brand," with picture of elephant branded "W. H."; for chemicals (3) and essences, etc. (4 and 43). By W. Hay, Ltd., 42 Walmsley Street, Hull. 387,327/28/30. (Associated.)

"Terpylix" and "Kresylix"; for internal medicines (3). By Hough, Hoseason & Co., Ltd., 2 Bridge Street, Manchester. 387,695/6.

"Velvia"; for all goods (3). By Maison Grossé, Ltd., 2 Bold Place, Liverpool. 387,703.

"Cavro"; for food substances (42). By H. G. Rushton, "Bramksholm," Egerton Park, Rock Ferry, Cheshire. 387,319.

"Carnate" under picture of chemical apparatus and signature "R. Demuth" ("Carnate" disclaimed); for perfumery, etc. (48). By R. Demuth, 68 Salusbury Road, London, N.W. 6. 386,283. (Associated.)

"Opalescia" ("Opal" disclaimed); for perfumery, etc. (48). By F. S. Cleaver & Sons, Ltd., Gould Road, Twickenham. 387,733.

"Velvoret"; for perfumery, etc. (48). By A. O. Wilson, 56 Nelson Street, South Bank, Yorks. 387,895.

"Arm Brand" under device of mailed arm and leaf; for brushes, etc. (50). By Burrell & Co., Ltd., Millwall, London, E. 14. 386,699. (Associated.)

"Unity"; for brushes (50). By A. R. Roe, 49 High Street, Market Harborough. 387,809.

(*From "The Trade-marks Journal," March 26, 1919.*)

Device of man using bow and arrow; for all goods (1 and 2). By Bowmans (Warrington), Ltd., Gorsey Lane, Widnes. 386,423/4. (Associated.)

"Arboreum"; for chemicals (1). By L. Berger & Sons, Ltd., 201 Morning Lane, Homerton, E. 9. 387,021.

"Maxyntan"; for all goods (1) and for goods (4). By H. M. McArthur, 327-339 Vauxhall Road, Liverpool. 387,418/19. (Associated.)

"Carbolino"; for disinfectants (2). "Senodus"; for carpet-cleaning preparations (47). By The Casson Compositions Co., Ltd., 11 Craven Hill, Paddington, W. 2. 387,528/9.

Information Department.

INFORMATION WANTED.

113/22. Everadd's "Solfarine"
113/23. "Delissa" face cream
113/25. Sheaves' balsam
112/49. Chondrus Chrispus, in scale form
114/74. "Pelloids," mornhine, etc., "for everyday use"
115/61. Dr. Salp's "New London" hair restorer
114/73. Patchouli leaves
117/6. Pistonless hydraulic press.
114/7. Schuman's preparations

INFORMATION SUPPLIED.

"Alkymol," 103/51
Bottle-washing machinery, 91/60
Bottles, glass (American), 74/43
"Cargentos," 98/35
"Casagel," 95/4
"Castrique," 76/29
Dorin's preparations (agents), 101/13 and 106/49
Drying-machinery, 100/66
Gelle Frères' preparations (agents), 101/13
Gillette razor-blades, 108/31
Hearing apparatus, 102/59

Observations and Reflections.

By Xrayser II.

The Dilatoriness of the Council

is so clearly the cause of its now finding itself in the dilemma the two horns of which are Trade Board and Industrial Council, that we need not waste any sympathy with that body in its present perplexity, though we may well feel some disquiet on our own account. There is little doubt that, if the hurried action now taken fails to get the Industrial Council into effective being before April 24, the assistants' Unions will go solid for a Trade Board, and there are good apparent reasons why they should in any case prefer this side of the alternative, since the question of pay is what most concerns them. Being reasonably free from the taint of snobbery which causes such repugnance in the minds of many pharmacists at the thought of being associated with the butcher, the baker, the candlestick-maker, and the rest, this possibility does not shock me as it does some, but I hope we shall not be forced to accept it, and if we are I have no doubt that the Council will thereby incur a good deal of odium. This makes the attitude it assumes towards the assistants' Unions appear the more strange.

The Recommendations

of the Local Associations Executive *re* the Industrial Council have all been adopted by the Pharmaceutical Council, with three dissentients only, who must now, I fear, be regarded as constituting the full force of the progressive opposition. In this case they seriously opposed only two of the recommendations, the first of which is that the Society's existing organisation, or say, for short, the L.A.E., shall provide representation for employers; the second, that a new assistants' Association shall be formed to represent their class. On the first point one need only say that if employers are content to leave themselves in this matter in the hands of the L.A.E., let them do so. But what about the assistants? There are already three Unions claiming to represent them; why are these spontaneously formed bodies to be superseded (for this is what it comes to) by another formed for them by, or at least under, the direction of their employers? To pretend that this is done without prejudice to them is all moonshine; to say there is not time for them to secure an adequate membership, while there is time for a new and as yet unformed Union to do it, is sheer nonsense. The Council may indeed prevent their securing a sufficient membership by thus starting a rival Union that will drain their source of supply, and this is what it appears most concerned to do. I hope assistants generally will see through the attempt and rally to their own Associations. Into their merits I need not enter; it is a pity there are so many Unions, with more or less divergent aims it may be, but the idea of securing unity of action by starting a fourth Association that will inevitably be antagonistic to all of them is worthy of the date on which it took form in Recommendation 2—namely, All Fools' Day.

Mr. Currie's Manners

really are deplorable. I should not, however, think it worth while to refer to the way in which he snapped up Mr. Wolff on the subject of assistants in the retail and wholesale—"It says retail, doesn't it? Retail doesn't mean wholesale, I should think!"—were it not that it is impossible always to draw such a sharp distinction between the two classes. I have myself been an assistant in both branches, and I have known scores more who have; why should those who are temporarily engaged in the wholesale, perhaps for the purpose of making themselves more efficient in general business, be debarred from joining in conferences for the purpose of promoting an Association of assistants? The distinction is an arbitrary one in their case, and it is, as I say, the case of a very considerable number of men.

Another Year in the Wilderness,

with the fleshpots of Egypt further behind us than ever and the Land of Promise no nearer, is what follows from the Progressive Club's failure to secure us new candidates for the Council. That the three men invited to stand declined to do so may have been due to the fact that their number was so small. However this may be, the failure is a confirmation of my recently expressed suspicion that the Club has lost its first zeal and energy. A hardened optimist of my age is not easily discouraged, but I confess that I begin to lose hope of any radical reform of the Council either from within or from without. An oligarchy tempered by ructions must content us for a while at least.

The Derivation of "Chemist"

which connects it with the Greek χῡμεία (pouring, infusion), is not (as your article showed) now "recognised as a false etymology" by the most eminent of our philologists; it may or may not be the true one, but it has an equal claim to probability with the other. Your correspondent "L." is mistaken, too, in supposing that the Arabic *al-kīmīa* (supposedly from the Greek χημεία) signifies the black art; its true meaning is the Egyptian art, the art of the land of Khem (black earth). If we may trust the Oxford English Dictionary your article was philologically quite sound, and your correspondent's criticism will hardly counterbalance the opinions of the authorities you cited. Mr. Self, I may add, seems to have overlooked the fact that your use of the word "thief" in connection with the Institute of Chemistry was entirely suppositive; if it is objected to, it can be avoided by not attempting to rob us of our good name.

"A 'Square' Man"

is quite right in saying that the unqualified storekeeper is more frequently evolved from the unsuccessful retail assistant than from the wholesaler. My observation goes to show that more indifferent retail assistants drift into the wholesale than revert from it to the retail, whether as assistants or as unqualified dealers. The great "feeder" of the latter class undoubtedly is the apprenticeship system as it has been abused by careless or unscrupulous pharmacists. Lads have been allowed to pass through their term of service as cheap labourers without any training worthy of being so called (I have met with some appalling examples), and have lost heart in the attempt to make up this backwater afterwards. This, however, has no necessary connection with the passing of the Preliminary examination before apprenticeship. None of the many apprentices I have trained had passed it when they came to me, but none left me until they had passed it, and those of them who have lived to enter business as pharmacists for themselves have been as successful as most of the men I know, one or two of them more so than I have been myself. It is not apprenticeship itself that is at fault, but the pharmacists who abuse it.

Alcohol,

as supplied, or perhaps I should say as delivered, to pharmacists, seems to vary greatly in strength. Making sp. menth. pip. the other day a friend found the oil very imperfectly dissolved, and the longer the mixture stood the greater the quantity of the oil thrown out. The alcohol employed was ostensibly the 90 per cent. article, the oil being a foreign one guaranteed to answer all B.P. tests. When the specific gravity of the alcohol was taken it proved to be only 0.916. Another lot of spirit was then made with alcohol from another source, and this proved satisfactory. My friend says it was noticed when the first lot of alcohol was opened that the cork was loose in the jar, and he now suspects that it had been tampered with in transit. A less trustful person would probably have suspected this at the time. Be this as it may, I accept his gravities as correct, and suggest that wholesalers should not only test alcohol when it is despatched, but should secure it against dilution in transit by a seal that cannot be broken.

"SANITAS"
NON-POISONOUS
DISINFECTANTS
FLUIDS, POWDER, SOAPS & APPLIANCES
Should be stocked by all Chemists.
THE "SANITAS" CO., Ltd., LIMEHOUSE, LONDON, E. 14

S.V.R. — S.V.M.
AND
CHEMISTS' WINES.
Jas. Burrough Ltd. D.1 Cale Distillery, Hutton Rd., LAMBETH, S.E.11.

Essential Oils
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Editorial Articles.

Two Grand Old Men.

Famous in the respective spheres of chemistry and pharmacy, two splendid men of the Victorian era have died recently. We refer to Sir William Crookes, O.M., and Mr. S. R. Atkins, J.P. Sir William Crookes, the main facts of whose career are given on p. 55 of this issue, is easily the most eminent chemist of his day if we consider the scope and variety of his discoveries. His investigations in chemical and physical science have extended over a very long period and have been carried on practically down to the time of his death. In looking back upon his work one cannot help being struck with the connected character of the different investigations, and it must be borne in mind that the results of Sir William's researches were due to system rather than to accident. Perhaps the feature of his long career was the idea that knowledge has no limits—we have only touched the fringe of most subjects. There exist, he held, other forms of matter which had not previously been demonstrated. A pupil of Hofmann in the 'forties, his career of investigation started with a study of the seleniferous deposit from the sulphuric-acid manufactory at Tilkerode, which had been placed at his disposal by Hofmann. In this deposit Sir William discovered thallium, and he exhibited this element in the metallic form at the International Exhibition of 1861. The spectroscope, a newly introduced instrument, was employed in the thallium research, and led to a speculation as to other forms of matter at that time undiscovered. The well-known radiometer was evolved in an attempt to prove the existence of a force acting in a vacuum, and this instrument proved to be the parent of Crookes' vacuum tubes which afterwards were found to evolve x-rays. Sir William was not destined to discover x-rays, but it is probable that he took the first radiograph, as he has related how that when experimenting with his vacuum tubes in the proximity of photographic plates he developed on a plate the shadow-image of a man's fingers. He attributed it to faulty plates, but there is now not much doubt but that this was the effect of x-rays on the plate. His investigation of spiritualism was undertaken in the search for other forms of matter, and it says much for his courage that he undertook it at all, because at that time so-called scientists held that it was futile to attempt to demonstrate scientifically the continuity of life. The Royal Society refused to listen to an account of his work, but Sir William forced that august body to recognise his attainments by electing him as its President. When President of the British Association in 1898 he referred to his investigations in psychical science, and stated that he had nothing to retract, adding that he only regretted a certain crudity in his early expositions which may have militated against their acceptance by the scientific world—a generous view which only a man of broad mind can take. He suggested that an ultimate form of matter existed; he called it protyle, and in Sir J. J. Thomson's discovery of electrons and the discovery of radium ample demonstration has been given of the value of Sir William Crookes' imagination on scientific investigations. Some thirty years ago, when he had been elected President of the Chemical Society, we described the private laboratories which Sir William had established at his house at Kensington (one of the earliest in London to have an electric-light installation) and where he systematised his research and followed up the clues which the various investigations supplied. It will be remembered that when President of the British Association in 1898 he startled the world by his prediction that if the number of inhabitants increased at the average rate there would come a time when the amount of wheat which the earth could produce would be insufficient for the needs of the population. To avoid this disaster more wheat must be grown upon the same space, this being possible, he showed, by the use of nitrogenous fertilisers. He suggested that the nitrogen of the air could be employed as the source of the fertiliser, a prolific speculation which has since been carried out on a large scale. As an example of recent scientific discoveries which Sir William Crookes has made may be mentioned the production of comparatively colourless glass which cuts off at the same time heat rays and ultra-violet rays, this glass being specially adapted for the manufacture of spectacles employed by workers in glass factories, who are particularly subject to cataract owing to the glare and heat encountered in their daily work. This tedious investigation necessitated the manufacture of hundreds of samples of glass in which different metallic elements were employed. As pharmacists we are specially interested in the results of Sir William's work on colloids carried on in collaboration with his son, the late Mr. Henry Crookes, as it has resulted in the production of a range of colloidal metals of remarkable medicinal activity. Sir William Crookes was elected an honorary member of the Pharmaceutical Society in 1889, and was knighted in 1897 on the occasion of Queen Victoria's Diamond Jubilee, at a time when it was very rarely that science received any recognition from royalty. As a painstaking investigator and prolific discoverer, Sir William Crookes has had no equal in English chemistry.

The other grand old man to whom we have to refer is Samuel Ralph Atkins, whose death at the great age of ninety-one was announced in our last issue. Mr. Atkins' reputation does not rest upon pharmaceutical investigations and discoveries, but upon his literary culture and the thought he gave to the ethical problems of pharmacy. Looking back at the earlier expressions of his views on ethics we are much struck with the clearness with which he expressed himself, and also with the fact that most of his ideals are as yet unfulfilled. Fifty years ago, for example, he referred to anomalies regarding the sale of poisons in the Pharmacy Act, 1868, as "another proof of the inconvenience—nay, positive harm—done when special legislation in technical matters is attempted by 'externs'; whilst at the same time it furnishes another proof of the advantage which would result from a special representation in the House of Commons." Mr. Atkins lived long enough to see the most riotous legislation on

pharmacy matters by uninformed Government Departments, but in the matter of special representation of pharmacy in the House of Commons it must be conceded that the principle has been put into action. So far back as 1871 Mr. Atkins called attention to the inadequacy of dispensing-fees, and yet, notwithstanding the much higher costs of materials and labour, the prices charged for dispensed medicine are probably lower now than they were fifty years ago. We remember, too, in one of his papers before the British Pharmaceutical Conference how he preached the necessity of defending our "just and inalienable right" to prescribe at the counter at a time when the Apothecaries Act was being used as a scourge for chemists. Since then the rights of chemists to prescribe for venereal diseases have been taken away with scarcely a protest from the Pharmaceutical Society. Nor do we seem any nearer to the day which he said "assuredly will come" when medical men and pharmacists will no longer regard each other as competitors but as fellow-workers both engaged in the treatment of disease, the one in the preparation, the other in the administration, of remedies. As President of the Pharmaceutical Society Mr. Atkins set an example of dignity and administrative ability which might well be imitated at the present time. His views on company pharmacy were frankly expressed during the discussions on the Pharmacy Bills which proposed to recognise and regulate the practice of pharmacy by limited companies. His attitude was anti-company to such a degree that he announced his intention of fighting to the end with his back to the wall against the recognition of companies. He was forced, however, to accept the regulation of limited companies as the lesser of two evils. Much has been said as to his magnificent gift of oratory, and in this connection we recall his last appearance in public in 1913 on the occasion of the jubilee meeting of the British Pharmaceutical Conference, when the old fire of oratory lighted up for a brief period, leaving the impression with most of us that we had listened to the swan song of a great man. Among the lessons which the lives of these fine old men teach us perhaps the chief is that each of us has here our special sphere of usefulness which we must cultivate assiduously to the benefit of our fellow-men. One may be an investigator and discoverer and another an administrator and teacher, but each gift of Nature is given us for the common good.

The Fall in Quicksilver.

The outlook in quicksilver obviously underwent a change when the Armistice was signed, as this foreshadowed a cessation of the war demand, the existence of which was chiefly instrumental in driving up the price to the highest record level of 25*l.* per bottle, although this figure is understood to have been secured only for occasional sales of small lots within the last two years. In several of our recent issues we drew attention to the constant break in the American price, which, coupled with the recent arrival of 5,000 bottles from Spain, naturally hastened the big reduction in the price last week, current quotations now being 15*l.* to 15*l.* 10*s.* per bottle. This level is already more than 1*l.* per bottle under the lowest recorded in 1916. The fall in America has also become accentuated, the latest quotation available being 73 dols. per flask, so that the London price is still fully up to that figure, without, however, making any allowance for freight and insurance were American quicksilver shipped to this market. With freer shipping facilities, there is no doubt that the Spanish supply—which is handled by the Rothschild interests since the old arrangements with the Spanish Government were renewed under certain modifications—will become more regular. The last arrival mentioned was particularly heavy, so that the market is now very well supplied for some time, at any rate, to say nothing of the supplies that may yet come along from other countries, possibly also Italy, whose output has undoubtedly kept up well, although up-to-date returns are not available. On the basis of the much-reduced requirements, which are now presumably chiefly confined to the usual industrial uses in the chemical trade and in the manufacture of paint, etc., it is to be expected that more keen competition will be experienced in this market on the part of the chief producing countries. The surplus stocks in the United States may possibly be considerable, and efforts may thus be made there to secure an export outlet in competition with other descriptions. The American output, it must be remembered, originated under sheer necessity, and this was facilitated by the high level of prices; but this necessity has now passed, and the American output is bound to experience a substantial shrinkage in the course of this year, while the returns for the past year clearly indicated some weakening in a falling market. The largest mines are in California, where the greater part of the total is secured, while the output in Texas is relatively small. Spanish quicksilver can be produced much more cheaply than American, as Spanish ores yield about 8 to 15 per cent. mercury. This means, of course, severe competition to American producers. As it is, the price current in America would probably leave but a lean margin of profit under present miners' wages. The opinion was recently expressed by American experts that the imposition of an import-duty of 35 dols. per flask would be necessary in addition to the present "ad valorem" in order to keep the mines going under peace conditions. Our imports of quicksilver for last year and for the previous five years were as follows, the extreme prices recorded in each year being also given:

	Imports	Highest £ s. d.	Lowest £ s. d.
1918.	14,366 bottles	25 0 0	20 0 0
1917.	28,966 ,, ...	25 0 0	18 12 6
1916.	34,043 ,, ...	18 15 0	16 12 6
1915.	40,579 ,, ...	18 5 0	11 2 6
1914.	37,569 ,, ...	11 5 0	6 10 0
1913.	45,349 ,, ...	7 10 0	7 0 0

The imports for the first quarter of this year at 7,175 bottles are thus fully one-half of those for the whole of last year, and this year's total imports seem pretty certain to make up for the shortcomings in the war period. The world's production of quicksilver in the two years which preceded the war was estimated at, roughly, 125,000 bottles, and it is probable that it has during the war period increased substantially, not only in America, but also in Spain, Italy, and Austria-Hungary. There is not much doubt that our market, as time goes on, will feel the full effect of the changed conditions in the use of quicksilver, while we understand that American parcels have been offered in this market and small consignments have already been received.

Overseas Trade in March.

In spite of the many adverse conditions under which the overseas trade of the country is being carried on, the Board of Trade Returns for March again afford encouraging evidence of a modest progress, inasmuch as there is a considerable expansion in exports and re-exports. The improvement made this year has not been very rapid, but with the blockade still in force in Central and Eastern Europe this is only to be expected. The new conditions under which shipping has been working since March 1 have been a contributory factor to the improvement, while the removal of many restrictions has led to greater freedom for traders. British exports last month reached the exceptional total of 53,108,500*l.*, being an increase of 17 millions sterling, and re-exports were 5¾ millions more at 8,949,000*l.*, while imports declined by 1½ million to 105,772,000*l.*, compared with the corresponding month of last year, which, however, had one working day less than the past month. The feature of the imports under the three main heads was an increase of 3,625,000*l.* in foodstuffs, a decline of 3,701,000*l.* in raw materials, and a decline of 1,349,000*l.* in manufactured goods. Among the raw material, oil-seeds and similar products improved by 1,678,000*l.* to 8,833,000*l.*, much of this being due to a very considerable increase in the receipts of linseed from the British East Indies—viz., 222,547 qrs., against only 79,735 qrs. in March 1918, which should go a long way towards restoring the seed-crushing industry. Cotton and rape show slight improvements,

likewise palm-kernels, while copra, which was almost a dead-letter during the war, is reviving again. The petroleum imports were almost halved, and the much larger receipts of tallow are welcome. Acacia gum shows a big expansion, from 9,555 cwt. to 40,292 cwt., like resin, from 45,992 cwt. to 221.242 cwt., and turpentine oil, from 2,776 cwt. to 26,080 cwt. Among manufactured goods imported there was a heavy decline of 2,534,000*l.* in chemicals and the like, to 5,980,131*l.* By far the larger proportion of this fall was in unenumerated chemicals, which shrank from 1,590,000*l.* to 147,000*l.* Acetic acid, carbide of calcium, cream of tartar, saltpetre, soda compounds, tartaric acid, dyestuffs, and tanning substances all registered material declines. Much larger receipts of painters' colours and pigments were received —57,929 cwt., against 14,306 cwt. in March last year— the importation of barytes (29,566 cwt., against 2,197 cwt.) being a feature. Unenumerated drug imports were practically unchanged at 206,700*l.*, against 211,100*l.*, and of quinine and quinine salts we received 200,576 oz., compared with 170,862 oz. The following are the saccharin figures :

	1917 Oz.	1918 Oz.	1919 Oz.
March	24,330	113,105	165,627
Jan.-March	118,958	350,009	519,290

It would be surprising if these figures have now reached their high-water mark. With regard to the exports of British manufactured goods from the United Kingdom, trading was distinguished by a rise of 12,609,000*l.*, chemicals and the like participating by an improvement of 422,000*l.*, our total shipments attaining 2,240,500*l.* The improvement was general, if we except copper sulphate and quinine (a controlled article). Bleaching-powder was in active demand, 34,631 cwt. being exported, against 1,380 cwt. in March last year. Coal products, not dyes, advanced from 250,000*l.* to 291,000*l.*, and soda-compounds from 242,466 cwt. to 496,154 cwt., soda crystals, alkali, and caustic soda in particular showing substantial gains. The drug and medicine exports also indicate improvement, as the following figures show :

	1917 £	1918 £	1919 £
March	323,644	253,443	288,531
Jan.-March	853,444	745,548	1,064,316

Considering the material decline in prices of chemicals and drugs during the quarter, the above figures indicate a substantial improvement in the volume of business done over the period, and it is likely to be increased as the year advances. Altogether the Returns, while showing improvement in the general trading of the country, serve to emphasise the necessity of stimulating the export trade by every possible means.

The Industrial Council.

It seems that an effort is to be made to form an Industrial (or Whitley) Council for the drug-trade so as to avoid the creation of a Trade Board. A meeting of representatives of the various trade-unions to which chemists' assistants and drug-workers belong was held on April 4, when it was agreed to support the formation of an Industrial Council. Some members of the Council of the Pharmaceutical Society and of the Local Associations Executive were present at the meeting, as well as Mr. W. S. Glyn-Jones and Mr. G. A. Mallinson, secretary and assistant secretary of the Pharmaceutical Society. The plan agreed upon is that a committee of twenty-four shall work out the scheme. Half the number are to be employers and half employés. Of the employers' representatives it was arranged that the Pharmaceutical Council should nominate four of their members, the others being nominated by the Drug Club, drug companies, and wholesalers not represented by the Drug Club. The matter is still in a critical stage, and it will require much tact and forbearance on all sides to make possible the formation of an Industrial Council, on account of the limited time in which this is to be done. Some sort of campaign is to be undertaken by the Pharmaceutical Society to endeavour to get assistants to join a union, so as to be in a position to show that adequate representation will be given to employés on the Industrial Council. It is unnecessary to remind assistants that the Amalgamated Society of Pharmacists, Drug and Chemical Workers has been formed especially for the drug-trade, and that it possesses advantages over any union which includes assistants with dock labourers *et hoc genus omne*. The address of the organising secretary (Mr. F. Hawkins) is 31-33 High Holborn, London, W.C. 1. The President of the union is Mr. Herbert Skinner, Ph.C., member of the Council of the Pharmaceutical Society, and another pharmacist, Mr. E. N. Lloyd, 51 Earlham Grove, Forest Gate, E. 7, is secretary. The publication of a union journal in the interests of chemists' assistants and drug-workers has been arranged. The first number will appear this week.

The Sale of Cocaine.

The trial has taken place at the Central Criminal Court since our last issue of a man named de Veulle, who was charged with the manslaughter of an actress to whom he supplied cocaine. He was acquitted on this charge, but on a second count in the indictment, that of conspiring to procure cocaine, de Veulle was sentenced to eight months' imprisonment in the second division. The object of this note is to enter a formal protest against a remark of Mr. Justice Salter in his summing-up, in case this should be taken to refer to the retail trade. He is reported to have said : "It is strange to reflect that until quite lately these drugs could be bought by all and sundry like so much grocery. I earnestly hope that that may never be the case again." It is probable that the judge was misled by the frequent references in the case to the Cocaine and Opium Regulation, which is one of the ill-considered products of a Government Department and not a definite act of legislation by representatives of the people. The sale of cocaine by retail has been very strictly regulated by the Pharmacy Act ever since the drug was introduced to medicine. The retail sale of poisonous vegetable alkaloids, of which cocaine is an example, can only be carried out by chemists and druggists under the severe restrictions of Part I. of the Poison Schedule as originally laid down in the Pharmacy Act, 1868, section 17. It is not unlikely that the restrictions governing the sale of cocaine will be extended to the manufacture and wholesale sale of poisons. At least this is how we interpret the "inspired" paragraphs that are appearing in the lay Press.

The Choice of Names.

Under this title "The Hospital" has in the current number an article dealing with the selection and application of names for diseases. The article also touches upon the use of the word "chemist," and as the remarks are more temperate than is usual in the non-pharmaceutical Press they are worth quoting :

> On the one hand, this is the term applied to highly skilled laboratory workers or investigators in the department of chemistry. On the other hand, it commonly signifies a person who keeps open shop for the dispensing of physicians' prescriptions and for the sale of medicinal preparations. Some of these preparations consist of dried vegetable products, or *drugs* in the strict meaning of the term, and hence the person dealing in them is reasonably called a *druggist*, while others, of mineral origin mainly, received, and popularly indeed still receive, the name of *chemicals*, so that the individual who dealt with these became spoken of as a *chemist*. Time and the increase of knowledge have upset this sharp opposition, and have given us many "chemicals" of vegetable origin. But the names which grew out of this opposition still remain, and may be seen in the trade announcement, "Pure drugs and chemicals," and in the title "chemist and druggist." The scientific worker in chemistry appeared later in the field, and when he arrived he found that his natural designation of "chemist" had already been applied to another worker, and under this bond he remains to this day. Naturally he would fain take the title appropriate to his calling, and would persuade the "chemist and druggist" to become "pharmacist"; and we feel to his wishes every good will.

We agree with the conclusion of our contemporary that it is almost impossible to change a name that has been established by long habit.

Associations' Winter Session.

Bradford.—A meeting of the Bradford Pharmacists' Association, on April 3, Mr. W. Sutcliffe presiding, was addressed by Mr. W. H. Saunders (Liverpool) on *Face Values.* After speaking of the work of the Proprietary Articles Trade Association and of the Face Values Committee, Mr. Saunders said that 20 per cent. is a sufficiently small minimum profit for the retail chemist. The principle of sale at face value has received great support. The P.A.T.A. and the Face-Values Committee are now amalgamated, and their work has changed the whole outlook of the patent-medicine trade. These goods now yield some profit. He mentioned the percentage of sales at face values during the past three years, and said they want not only the 100 per cent., but all the 10,000 chemists in the country to be on the P.A.T.A. They must abolish the variation in retail prices. He was curious to know the Bradford chemists' proportion of business done in proprietary articles. Messrs. D. S. Priestley and A. C. Pyecroft said their proportion is only 25 per cent., and Mr. Thorpe said his is 30 per cent. Mr. Saunders expressed surprise to hear the percentages are so low. Several members remarked that probably they are rather higher in the suburbs. Referring to the allegations of some manufacturers that chemists substitute their own goods for patent medicines, Mr. Saunders said there is little of that nowadays. Some manufacturers hold that the chemist can get 20 per cent. by buying direct, but the chemist cannot always buy direct, and there is no justice in the suggestion that he should buy some particular manufacturers' goods direct and everybody else's through the usual channels. In the list of unsatisfactory products are some yielding only 7 per cent., which is outrageous. Nobody but the chemists would do such an undignified trade. Some manufacturers declined even to be interviewed. Mr. Saunders thought the boycott idea unpleasant when anything else could be done. Manufacturers should see that they would gain by giving a fair profit. Chemists must have a fair working margin. Mr. Saunders, while agreeing that some lines on the P.A.T.A. do not yield 20 per cent., said no new lines were being admitted under that percentage. Mr. Priestley said that unless the Government makes a graduated tax the 1*s.* 3*d.* bottled article must vanish if the chemist is to have an adequate profit. Pills and powders are a different matter, because their containers cost much less and the goods themselves are sold far above what they need be. As to a boycott, if the chemists are strong enough for that they are strong enough to insist on face values. Mr. Silson said Bradford chemists favour the graduated tax. Mr. Perfect thought the chemists are sufficiently strong to ignore the stores who would not fall into line. Mr. Saunders asked if any member in the room gets face values on everything, and received a reply in the affirmative from Mr. Pyecroft, who is not aware that he has lost any customers thereby. Mr. Bailes and Mr. Priestley continued the discussion, mentioning that Bradford had tried to arrange uniform retail prices, but the movement broke down owing to the attitude of certain multiple firms. Mr. McMillan (Northern representative of the P.A.T.A.) thanked Mr. Priestley and Mr. Hanson (co-secretaries in Bradford for the P.A.T.A.) for their work, and mentioned that the Bradford membership of the P.A.T.A. was very satisfactory. Mr. Craven said it would be difficult to overcome the manufacturers' argument that the goods were so well advertised that they needed no pushing. The following resolution was carried: "That the Bradford Pharmacists' Association heartily supports the principle of protecting prices of patent medicines and proprietary articles at face value, with an adequate profit to the chemist, as advocated by the Propaganda Committee of the P.A.T.A., and pledges itself to do anything in its power to help to bring this about." On the recommendation of the meeting, after some further discussion, Mr. Saunders added to the resolution the fact that Bradford favours a graduated tax of 1*d.* in 4*d.*, or, preferably, 1½*d.* in 6*d.*, with a minimum of 3*d.*

Ealing.—A meeting of the Ealing Pharmacists' Association was held on April 1, the President (Mr. S. C. McKee) in the chair. The President proposed a vote of thanks to Mr. Arnold Roberts for his organisation of the whist-drive in March. A letter of condolence on the death of her husband was sent by the Committee to Mrs. Udale, widow of Mr. Geo. Udale, late dispenser at Hanwell Asylum. A paper on *The Drug Market* was read by Mr. F. Goodall (Editor of "The British Trade Review"). Mr. Goodall first dealt with bromides, saying that buyers of bromides are, for the time being, entirely at the mercy of the American manufacturers, and will be for some time to come. The manufacture of bromides has, to a predominating extent, become concentrated in the hands of one large concern—the Dow Chemical Co. of Midland, Michigan. It is known what usually happens when competition is eliminated, and there is no reason why the usual experience should be different on this occasion. In the speaker's opinion, at present prices, bromides appeared to be worth buying, and it would seem pretty safe to take in a six or twelve months' supply. Mr. Goodall, however, disclaimed responsibility if his opinion proved to be incorrect. Looking further ahead, complications can be seen when the French industries are straightened out, for France has very large supplies of bromine. Mr. Goodall queried what is going to happen in the drug industry of Germany, and went on to speak of salicylates, where one finds an abundance of competition and plentiful supplies of raw material. The end of the war sees dozens of factories in full swing and an over-production of salicylates. The price has steadily receded, and there is no reason to think that the downward movement is approaching its end. Carbolic acid, no longer required for war purposes, is in fact almost unsaleable, and big users could probably buy it at 4*d.* per lb., one halfpenny above the old price. The increased cost of labour must be taken into consideration, but before the war the manufacture of synthetic drugs was a monopoly of one country, whereas in the future there will be plenty of competition. After some observations on olive oil, the speaker considered that prices of Epsom salts and "hypo" would soon be comparable to pre-war figures. He next dealt with potash and the changed outlook of Germany in regard to this commodity. Bleaching powder will probably be cheap, as huge supplies of chlorine are liberated for commercial purposes. Referring to dyes, up to the end of the war the results were by no means satisfactory, because the supplies of toluol and benzene were required for war purposes. Since the war, however, the output from the British Dyes factories has vastly increased. Glycerin is not likely to be so cheap as it was before the war. Other chemicals were dealt with, and in addition the speaker contrasted Liverpool with London as a market for drugs, and said that Liverpool is not likely to out-distance London in that respect.

Essex.—A Committee-meeting of the County of Essex Association of Pharmacists was held on April 3. After reference to the loss sustained by the death of Mr. J. H. Matthews, Treasurer, and, for some years, President, of the Association, the Chairman (Mr. C. Rundle) gave his impressions of the dinner held the previous week (*C. & D.*, April 5, p. 66). Mr. C. Rundle was then elected as the third representative to the Local Associations Conference. The Secretary (Mr. C. Goode) reported upon the meeting of the various interested bodies with the Ministry of Labour regarding the Whitley Report. After a long discussion it was decided to urge the Pharmaceutical Council to organise employers and employed in order that an Industrial Council, acceptable by the Ministry of Labour, should be formed. It was decided to accept the invitation to hold a meeting at Colchester on May 24. A Reception Committee has been formed there, and the Mayor has placed a suite of rooms at the disposal of the Association. He has also invited all members and their lady friends to tea with him. While the business of the meeting is in progress the ladies will be shown places of interest around Colchester. The Proprietary Articles Trade Association will be represented by Mr. Rowsell (Exeter) and the Pharmaceutical Council by a prominent member. Mr. Goode asks for the names of all members and friends intending to be present, and especially asks that Maldon, Chelmsford, Dovercourt, Frinton, Walton-on-Naze, and Harwich will note the date.

Exeter.—A meeting of the Exeter Pharmaceutical Association was held on April 7, Mr. Eric Lemmon in the chair. It was decided that all chemists should close their shops on the day of the official peace celebrations, except for one hour in the evening. The President, who undertook office in 1914 for the duration of the war, and Mr. F. W. Vinden, who has been Hon. Secretary for about twelve years, intimated their desire to be relieved of office. The new appointments will be made at the next meeting. On the proposal of Mr. P. F. Rowsell, who said pharmacy would be benefited and the Association strengthened thereby, it was unanimously resolved to invite the qualified managers of branch businesses in the city to join the Association. Mr. Rowsell and Mr. Lemmon were appointed to represent the Association at the Local Associations Conference.

Great Yarmouth.—The annual meeting of the Great Yarmouth Pharmaceutical Association was held on April 3, Mr. J. S. Shearman (President) in the chair. The President welcomed Mr. P. R. Hill on his return after four years' military service. It was decided to send 2*l.* 2*s.* to

the Pharmaceutical Benevolent Fund. Mr. P. R. Hill was elected *President* and Mr. F. E. Whitfield *Hon. Secretary and Treasurer* for the ensuing year. Mr. Shearman gave a short report of the annual meeting of the East Anglia Federation, and was instructed to make the necessary arrangements for the next meeting.

Irish C.A.A.—At the monthly meeting of the Cork Branch of the Irish Chemists' Assistants' Association, held on March 31, Mr. V. O'Sullivan (Chairman) presiding, votes of thanks were passed to Mr. V. O'Sullivan and to the Rev. Father Thomas for their efforts in bringing about the recent settlement of the dispute between the chemists and their assistants.

Lancashire.—A general meeting of the Federation of Lancashire Pharmacists' Associations was held at Blackpool

Photo] [*Cleworth.*

Group of Delegates Outside the Palatine Hotel, Blackpool.

on April 2. About forty delegates were present. Mr. J. F. Blackhurst, President of the Blackpool Association, welcomed the delegates, and Mr. F. W. Bates, J.P. (Salford),

Photo] [*Cleworth.*

Group of Officials.

Left to right: Mr. C. A. Critchley, Treasurer; Mr. Arthur Peake, J.P., Vice-President; Mr. F. W. Bates, J.P., President; Mr. W. H. Clubb, Hon. Secretary.

presided. Several matters were discussed, and the Federation gave its approval to the National Ministry of Health Bill. The delegates were afterwards entertained to tea.

London (N.).—This session's concluding evening meeting of the North London Pharmacists' Association took place on April 1, the speaker being Mr. Deakin (member of the Pharmaceutical Council). The President (Mr. J. C. Carter) was in the chair. Mr. Deakin, after giving an exposition of the development of pharmacy up to the present day, confessed that the conditions of National Health Insurance are very unsatisfactory. He said he is hopeful that better organisation will result in improved pay and conditions. He then proceeded to deal with the various details with which the Council had busied itself during the years of war. With regard to organisation, he pointed out that territorial representation on the Council is not feasible without the alteration of the Charter, but the principle is easily applicable to the Local Associations Executive, and if the proposal is carried at the ensuing Conference it would be an advantage to see how the principle would work and whether it would make for betterment. In dealing with the Whitley Council idea the Pharmaceutical Society should be the supreme body. Our title is one that should be protected and our position maintained by unbroken unity. What he fears most is not the red-tie movement, but the smug and lackadaisical ones who would not bestir themselves for the welfare of the community. Chemists should not be the scullery-maids of the medical profession. He submitted a summary of what chemists require: General betterment; improved organisation; less suspicion and more mutual confidence; improvement in their relations with the State; higher status of pharmacists in the public services; increased remuneration under the National Insurance Act; universal separation of prescribing from dispensing; a greater amount of scientific and research work; and adequate arrangements for dealing with trade and commercial matters. Messrs. Carter, Skinner, Todd, and Humphrey took part in the discussion, and Mr. Deakin replied.

Manchester.—A meeting of employés in pharmacy, wholesale and retail, convened by the Manchester Chemists' Assistants' Association, was held on April 2. The Chairman (Mr. G. Livesey), having referred to previous meetings at which the Whitley Report had been discussed, explained that the Assistants' Association had been requested to appoint three members to discuss the subject with a Sub-Committee of the Manchester Pharmaceutical Association, and called on Mr. D. N. Fullerton to present a report of that meeting. Mr. Fullerton reported that the Manchester Pharmaceutical Association represented over 90 per cent. of the employers in the district, but that there is no organisation which could claim adequately to represent the assistants. The first necessity, therefore, is organisation. Both sections are in virtual agreement as to their aims, and the two Sub-Committees advise their respective Associations unitedly to urge the Council of the Pharmaceutical Society to take immediate steps to form a national Whitley Council for pharmacy. The Chairman pointed out some of the difficulties which hinder a solution of the problem, and the policy of the Assistants' Association in regard to them. The Assistants' Association aspire to represent all who took up pharmacy as a calling; it wishes to include those who are opposed to trade unions, and intends to organise without adopting trade unionism, so as to secure wide support. This statement of policy was strongly attacked by those who are in favour of trade unions. The meeting decisively declared its opinion that a Whitley Council, representing the whole of the workers in the industry, is desirable.

Portsmouth.—A good meeting, presided over by Mr. T. Brewis, took place at the County Club on April 9, when the Association was addressed by Mr. Hugo Wolff on *Pharmaceutical Topics and Scientific Salesmanship.* In the course of an hour he covered a variety of subjects, and, without any attempt at white-washing the Pharmaceutical Society, he spoke in a breezy style which secured the appreciation of his audience. He said that the face-value movement had done good in various ways: first, it had put "ginger" into the Proprietary Articles Trade Association, it had largely disarmed the multiple-shop competitors of a fundamental method of hitting at the chemist, and, besides, it was possible to trace already 5,000*l.* extra profit among the retailers. Regarding the registration of apothecaries' assistants, that had been a foregone conclusion in 1908; he blamed the Society for passing the matter off on the members as a permissive clause. Their hope now was that by restricting eligibility to those who had been continuously in charge of a dispensary since 1908, the number of applicants would not be great. Mr. Wolff next dealt with early closing, and regarded this matter, along with several others, from the standpoint of trade *versus* profession. He contended that from first to last we are traders and distributors. The hankering after professional dignity and payment of a fee for Insurance dispensing found us no better paid than in 1914. In the same way, as professional men, we should be expected to be available whenever the public wanted us, while as traders we might open and close at definite hours and the public would have to come when we wanted them. A large part of Mr. Wolff's discourse dealt with the choice which had to be made soon between an Industrial Council and a Trade Board. He strongly advocated the former, the Local Associations Executive forming a part of the machinery—not that he was very sanguine of its capabilities; but the alternative was to be lumped with jewellers, pawnbrokers, and ice-cream vendors. Mentioning the Whitley Report and other schemes, he said this organisation, forced on us by the Government, is going to make us realise we are traders, and, settling down to this fact, we should make more money and enjoy increased comforts in life. Mr. Wolff was very heartily thanked and was handed a cheque for 172*l.* 4*s.* by the President, as Portsmouth's contribution to the War Auxiliary Benevolent Fund.

Society of Public Analysts.—At a meeting held at Burlington House on April 2, Dr. Samuel Rideal (President) in the chair, a paper was read by Messrs. N. G. S. Coppin and F. Holt on *A Method for the Determination of Monochlorbenzene in Mixtures Containing Benzene, Monochlorbenzene, and Dichlorbenzene.* The method is based upon Mr. D. Northall-Laurie's determination of toluene in commercial-toluols, described in "The Analyst," in which 200 c.c. of the dried sample is distilled at the rate of 7 c.c. per minute; the first 50 c.c. is collected and, after obtaining a further 100 c.c., distillation is stopped. The first 50 c.c. and the 50 c.c. residue are each tested in special, constant boiling-point flasks. From the boiling-points the percentages by weight of the constituents are read off from a graph. The method gives direct results with an accuracy of 0.1 per cent. for all mixtures containing from 50 to 100 per cent. of monochlorbenzene. Messrs. J. H. Coste and E. T. Shelbourne gave a paper on *The Electrical Conductivity of Milk.* The examination of over 200 samples of milk shows that the conductivity is not sufficiently well defined to be useful as an analytical datum, except for milks which have been examined by this means before incurring the risk of dilution. The relation between conductivity and temperature, non-fatty solids, ash, chlorion content and free acid, and the effect of dilution, have been examined. It is pointed out that the results obtained are consistent with the explanation given by L. C. Jackson and A. C. H. Rothera that the conductivity is dependent on the extent to which the constant osmotic pressure of milk is due to electrolysis with which the milk sugar is complementary. A *Note on Soluble Lead in the Glaze of Casseroles*, by Helen Masters, was also read. Casseroles of various descriptions, particularly some said to be of French make, were found to yield considerable proportions of lead on treatment with 4-per-cent. acetic acid, and with dilute solution of other acids such as would be present in certain cooking operations. The soluble lead is not all extracted by one operation, but after two to three treatments each subsequent treatment appears to yield a fairly constant quantity.

Southport.—At a meeting of the Southport Chemists' Association, held on April 8, Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd.), Liverpool, addressed the members on the question of *Face Value for Proprietary Articles.* He was enthusiastically received, and at the conclusion the following resolution was passed unanimously:

> That the Southport Chemists' Association heartily support the principle of protecting prices of patent medicines and proprietary articles at "face value" with an adequate profit, as advocated by the Propaganda Committee of the Proprietary Articles Trade Association, and pledges itself to do everything in its power to bring this about.

Mr. Saunders was entertained to dinner by the Committee.

Pharmaceutical Society of Great Britain.

Examination Results.

We have received from the Registrar of the Pharmaceutical Society of Great Britain the following list of persons who were granted Minor certificates at the recent examination held in Edinburgh:

Andrews, D. W., Paisley.
Baxter, Flora I., Stirling.
Bennett, W. G., Hull.
Campbell, Elizabeth, New Deer.
Ferguson, Thyllis, Kirkcaldy.
Goddard, T. W., Barrow-in-Furness.
Mackenzie, Helen M., Alness.
Mitchell, Edith S., Kemnay.
Newton, W. P., Macclesfield.
Richardson, H. S., Hull.
Robertson, G. H., Musselburgh.
Ronder, A. I., Edinburgh.
Smith, Barbara D., Dunfermline.
Smith, Elsie L., Hoylake.
Stewart, Agnes S., Paisley.
Tennant, A. E., Carluke.
Watt, Margaret E. B., Strathaven.
Wright, Annette J., Dalbeattie.
Young, Jessie W. B., Kelso.

Gazette.

Partnership Dissolved.

Blain, A. L., and Hankinson, W., 69 Market Street, Manchester, pharmaceutical chemists, under the style of Blain & Hankinson.

Training Demobilised Men.

Particulars are now available of the Government scheme for assisting in the training of men demobilised from the Forces.

For the purposes of the scheme demobilised men will be of three classes:

1. Men who before enlistment had obtained the requisite experience in the business, but who require to take a school or college course in the subjects of the Qualifying examination.

This class will be again divided as follows:

(*a*) Those for whom a full-time intensive course of six months would be sufficient.

(*b*) Those requiring a full-time course lasting nine months—*i.e.*, an academic year.

(*c*) Those whose circumstances would be best met by part time served in the business and at the same time part-time attendance at a school or college, thus spreading the training over two or three years.

2. Men who have yet to complete a sufficient period of apprenticeship or assistantship. In these cases arrangements might be made for them to complete their practical training, so as to bring them into the position of men in Class 1, or they might adopt the course indicated for Class 1 (*c*) men.

3. Men who have neither had previous experience in pharmacy nor taken any course of study in the subjects of the examination, but who are properly advised to take up the calling.

These should be apprenticed under conditions which would allow them to attend suitable courses of study in the subjects of the Qualifying examination during their apprenticeship.

The following directions should be followed by an applicant who has been demobilised:

1. Apply to the office of the District Directorate for the area in which he lives for two forms—namely, D.O. and D.1 A.D.

Form D.O. should be carefully filled up. Candidates are strongly advised to apply for the full nine months' course. It will afford them the surest opportunity of passing their examination and of securing the ideal course of training which will stand them in good stead throughout their pharmaceutical careers. In certain cases the applicant may think a six months' intensive course would suffice. It may be so, but it will be a false economy of his own time and of the Government money if at the end of such a course he failed to qualify, whilst if the longer course had been taken success at the Examination would have been secured. He should not indicate on the form the name of any particular school or college, but should ask to be trained at "a school or institution approved for the purpose by the Pharmaceutical Society." The reason for this will be explained later.

The form D. 1 A.D. is that upon which the applicant makes a declaration of his means.

2. Immediately the form D.O. has been completed and forwarded to the District Directorate, the applicant should send addressed to the Secretary, Pharmaceutical Society, 17 Bloomsbury Square, London, W.C. 1, a notification of the date when the form D.O. was forwarded, and the address of the Directorate to which it was sent.

3. If the applicant has passed one of the Preliminary examinations accepted for the purpose he should apply to the Pharmaceutical Society for registration as an "apprentice or student," unless already so registered. If he has not passed such an examination he may apply, on a form to be obtained from the Pharmaceutical Society, for exemption, which will be granted if he can satisfy the Council that he possesses a general education which will warrant his being registered as a student without undergoing a Preliminary examination.

4. Upon receipt of the D.O. form by the District Directorate the applicant will in due course receive a notice to attend before the Interviewing Board of the Directorate, and he will be interviewed by the pharmacist member of that Board. If there is undue delay in receiving this notice he should communicate with the Pharmaceutical Society.

It is intended that the scheme should be put into operation so that approved applicants may begin their courses of study in October, but immediate application should be made. A meeting of the principals of the British schools of pharmacy has been held in connection with the scheme, and arrangements have been made so that students taking the same courses can be accommodated in the same school of pharmacy.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

Reports from Local Centres.

ENGLAND.

Blackpool.—At a recent meeting of the Insurance Committee, a report prepared by the Pricing Bureau in respect of the supply of drugs was presented to the Medical Benefit Sub-Committee.

—	Year ended Dec. 1918	Year ended Dec. 1917
Number of prescriptions issued ...	47,781	38,232
Average cost per prescription	4.32*d.*	3.46*d.*
Average dispensing fee	3.43*d.*	2.95*d.*
Total cost of prescriptions issued ...	1,543*l.*	1,02*l.*

During the influenza epidemic of the quarter ended December 1918, 12,500 prescriptions were issued, at a cost of 412*l.*, compared with 8,461, at a cost of 236*l.* in the corresponding period of 1917. During the year 3,210 prescriptions, valued at 105*l.*, were issued to temporary residents.

Essex.—A meeting of the Pharmaceutical Committee was held on April 3, when a vote of sympathy was passed with Mrs. Matthews and family in their recent bereavement (*C. & D.*, March 22, p. 57). Messrs. England, Goode, Rundle, and Seed represented the Committee at the late Mr. Matthews's funeral. Mr. T. England, Vice-Chairman, was elected to the vacant post of Chairman. The report of the Checking Bureau was adopted, and it was decided to co-opt Mr. Leonard Matthews, Leytonstone, as a member of the Committee.

Halifax.—The Insurance Committee has received the approval of the Insurance Commissioners for the payment to the Pharmaceutical Committee of administrative expenses for the year 1919 out of moneys available for medical benefit. The Commissioners point out that no portion of the amounts included in the estimate may be paid to the Secretary of the Committee; in respect of personal services, while he is a member of the Committee. The Insurance Committee have received a letter from the Panel Committee agreeing to the Commissioners' scheme for the distribution of the Exchequer grant for rural practitioners. The Clerk has been instructed to communicate to the Secretaries of the local Panel and Pharmaceutical Committees that the War Emergency Formulary will be revoked on April 30, and asking them to issue instructions to doctors and chemists.

London.—A meeting of the Pharmaceutical Committee was held on April 8, Mr. G. B. Barnard (Chairman) in the chair. Information was received that the Insurance Commissioners have communicated with the Insurance Committee regarding the reinstatement of B.P. preparations containing glycerin and sugar, and that chemists and doctors are being informed that the use of War Emergency Formulary substitutes must be discontinued from May 1. The report of the Central Checking Bureau on the prescriptions dispensed during the month of November 1918 showed that the margin of error was 0.16 per cent. The chief matter for consideration was connected with the early-closing problem. Complaints regarding the alleged inadequacy in certain areas were the subject of a conference between representatives of the Insurance, Panel, and Pharmaceutical Committees, who have now recommended that a special section should be set up thoroughly to investigate any complaint which may arise with regard to difficulties experienced by insured persons in obtaining their medicines after 8 P.M. A very protracted discussion took place on this subject, and the information thus obtained was passed on to the Pharmaceutical Representative on the London Insurance Committee. The Chairman, who attended the Conference on behalf of the Pharmaceutical Committee, was formally appointed to represent the Pharmaceutical Committee on the Special Sub-Committee appointed by the Insurance Committee. The Secretary reported particulars regarding other complaints of alleged inadequate dispensing facilities in five districts within the county. It was considered that the dispensing facilities were insufficient in one district only. The representative on the Pharmaceutical Service Sub-Committee reported on complaints regarding delay in supply of medicines by certain chemists, and that Messrs. Melhuish and Keall have been appointed members of the Joint Services Sub-Committee of the Insurance Committee.

Middlesex.—The monthly meeting of the Insurance Committee was held on April 7. Accounts to the amount of 38,175*l.* 17*s.* were recommended for payment by the Finance and General Purposes Sub-Committee. Among these were the following to chemists: Balance, November-December, 1918, 2,461*l.* 6*s.* 10*d.*; advance payment, January, 1919, 1,145*l.* 13*s.* 9*d.*; ditto, February, 1919, 2,578*l.* 11*s.* 11*d.* On the recommendation of the Sub-Committee it was resolved to ask the Panel and Pharmaceutical Committees to nominate representatives to confer with members of the Committee with a view to making arrangements for the supply of drugs after closing time, and Messrs. J. D. Cooper, W. W. Kelland, and W. Marlow were appointed. The application of a chemist for permission to resign from the panel on grounds of health and lack of assistance was refused, as his release would prejudicially affect the dispensing in the area.

Portsmouth.—At a meeting of the Insurance Committee, on April 3, a settlement with the chemists was reported regarding the Drug Fund for 1918, the general particulars of which were as follows:

Total amount allowed, 4,047*l.* 12*s.* 7*d.*
Expenses, 28*l.* 9*s.* 7*d.*
Paid to chemists, 4,109*l.* 3*s.*
Total number of prescriptions, 137,667.
Average ingredient price per prescription, 3.38*d.*
Dispensing-fee, 3.41*d.*
Total cost per prescription, 6.79*d.*
Total cost per insured person, 1*s.* 6*d.*
Frequency per insured person, 2.65.
Medical Benefit Fund drugs, 3,877*l.* 8*s.* 10*d.*
Temporary Resident Fund drugs, 21*l.* 19*s.* 3*d.*
Sanatorium benefit, 148*l.* 4*s.* 6*d.*

A sum of 50*l.* has been allotted for the administrative expenses of the Pharmaceutical Committee for the year 1919.

SCOTLAND.

March Drug Tariff.

The March Appendix shows twenty-eight increases and forty-two decreases in prices of drugs. The price alterations are appended:

Name.	oz. s.	oz. d.	dr. s.	dr. d.
Acetanilid.... ...	0	8	0	1½
Acid. acetysal. ...	2	1½	0	4
,, benzoic. ...	2	7	0	4½
,, carbol. ...	0	3	0	0½
,, tart.... ...	0	5	0	1
Ammon. benz. ...	3	0½	0	5½
,, brom. ...	0	7	0	1
Authem. flor. ...	0	5	0	1
Caffein. cit. ...	4	8	0	8
Calc. glycerophos.	2	1½	0	4
Camphora... ...	0	11	0	2
Chloral hyd. ...	1	8	0	3
Cocain. hyd. ...	—		14	0
Creosotum ...	2	4	0	4
Ext. casc. sag. sic.	1	7	0	3
,, ,, ,, liq.	0	4	0	1
,, cinchon. liq....	1	3	0	2½
,, ergot. liq. ...	1	3	0	2½
Ferrum tart. ...	0	7½	0	1½
Guaiacol carb. ...	8	5	1	2½
Hexamina	1	1½	0	2
Hyd. ox. flav. ...	1	2	0	2
,, perch. ...	1	1	0	2
,, ammon. ...	1	2	0	2
Lin. camph. ...	0	4½	0	1
,, croton. ...	1	8½	0	3
Liq. gutta perch. B.P.C.	1	4½	0	2½
,, strychnin. hyd.	0	4½	0	1
Mel. boracis ...	0	3	0	0½
Ol. anisi	0	9½	0	1½
,, caryoph. ...	2	0	0	3½
,, crotonis ...	1	6½	0	3
,, eucalypt. ...	0	6	0	1
,, menth. pip. ...	5	5½	0	9½
,, ricini... ...	0	1½	0	0½

Name.	oz. s.	oz. d.	dr. s.	dr. d.
Oxymel scillæ ...	0	3	0	0½
Paraffin. dur. ...	0	1½	0	0½
Pepsinum	6	4	0	11
Phenacetin... ...	2	3	0	4
Phenazonum ...	7	8½	1	1½
Phenolphthalein ...	4	11	0	8½
Pot. acet.	0	7	0	1
,, brom.... ...	0	5½	0	1
,, permang. ...	1	3½	0	2½
,, tart. acid. ...	0	5	0	1
P. catechu. co. ...	0	8½	0	1½
,, opii co.... ...	1	8½	0	3
,, rhei co.... ...	0	7	0	1
Resorcin.	5	2	0	9
Sod. benz.	2	8½	0	5
,, brom. ...	0	5	0	1
,, glycerophos. 50%	1	1½	0	2
,, ,, 100%	3	3½	0	6
,, phos. eff. ...	0	5½	0	1
,, salicyl. ...	0	8	0	1½
Sulph. præcip. ...	0	2	0	0½
Syr. chloral ...	0	6½	0	1
,, glycerophos. co.	0	4½	0	1
,, tolu.	0	2	0	0½
Tr. benz. co. ...	0	8½	0	1½
,, cannab. ind. ...	1	10	0	3½
Tinct. cinch. co. ...	0	7	0	1
,, guaiac. am...	1	0	0	2
Tragac. pulv. ...	1	10	0	3½
Ung. hyd. ox. flav.	0	3½	0	0½
,, iodoform. ...	0	8	0	1½
Vin. antimon. ...	0	5	0	1½
,, colchici ...	0	8	0	1
,, ipecac. ...	0	5½	0	1
Zinc. sulphocarb....	0	6	0	1

Dundee.—After payment of all charges against the Drug Fund account of the Dundee Burgh Insurance Committee for the medical year 1917, and after carrying forward a balance in terms of the Medical Benefit Regulations, a sum of 546*l.* 10*s.* 8*d.*, in name of bonus, is available for division among the chemists on the panel in proportion to the amounts of their respective accounts.

Denatured Alcohol.—For the denaturation of alcohol to be used exclusively as a reagent for analytical and testing purposes by chemical and physical laboratories, according to a revised official United States formula, to each 100 gals. of pure 95-per-cent. ethyl alcohol are to be added 10 gals. of pure methyl alcohol of a specific gravity of not more than 0.810 at 60° F.

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Festivities.

Staff Concert and Dance.

The directors and staff of May, Roberts & Co., Ltd., held their quarterly concert and dance at the Cripplegate Institute, London, E.C., on April 5. On this occasion the staff were the guests of the directors. Dance and song alternated throughout the programme, which lasted from 6 P.M. to 10.15 P.M. The artists included the company's choir of thirty-five voices, which gave several glees, under the conductorship of Mr. W. C. Stewart, a director of the company. The singing of "For they are jolly good fellows," cheers for the directors, and "Auld Lang Syne" brought a most happy evening to a close.

Guildhall Reception to Doctors.

The British Medical Association is holding a clinical meeting in London this week under the presidency of Sir T. Clifford Allbutt, F.R.S. On April 8 the Lord Mayor received the members of the Association at the Guildhall. This was the first social event in the City since the war. There was a large company present. The string band of the Royal Artillery played in the Great Hall, and afterwards for dancing in the Art Gallery. The new court-room was transformed into a lecture theatre, where Mr. G. Q. Roberts, of St. Thomas's, discoursed of Old London, and especially its hospitals. Dr. A. C. Dove conducted tours about the old buildings; the Guildhall Museum (closed since the outbreak of war) was thrown open for the night, and the Roman and other antiquities were inspected with much interest. Supper was served in the Crypt.

Faculty of Insurance.

A "Victory" dinner in connection with the Faculty of Insurance was held at the Connaught Rooms, London, W.C., on April 4, under the presidency of Sir Kingsley Wood, M.P. The Pharmaceutical Society was represented by Mr. W. S. Glyn-Jones, Mr. P. F. Rowsell, Mr. Herbert Skinner, Mr. J. H. Cuff, Mr. J. Keall, Mr. A. R. Melhuish, and Mr. G. A. Mallinson. Sir Robert Morant, replying to the toast of "The National Health Insurance Commissions and the National Health Insurance Joint Committee," remarked that when, in the past, he was associated with education, it was brought home to him that considerations of health were the first basis of any real social progress and reform. In the early Victorian days, when education began to be taken up as a public matter, health was not brought into consideration as it should have been. But health was now coming into its own as a public problem. The great work of the approved societies in taking up the question of the Ministry of Health had appealed to him very much. As they knew, there were many local bodies that were working out different parts of the health question. It had been comparatively easy to unify different central departments; but when they came to the next step, as they must soon, of working out analogous unification of the various local bodies in regard to the health question, they would have to deal with big problems, controversies, and vested interests—some of them very good—that would suffer and feel acutely the process of unification. But they must act with the determination that sectional interests should be subordinated in order to secure unified effort. Advisory Councils were to be brought into organic, regularised, statutory relation to the Government Department—men and women who were actually engaged in the working of the thing from day to day. They might hope, if these councils were carefully composed, that many of the mistakes which they in Whitehall were apt to make might be avoided. An interesting part of the proceedings was the presentation to Mr. Rockliff of a gold watch, which bore the inscription: "Faculty of Insurance.—Presented by the Council to Percy Rockliff, their Chairman of 1915-16, and President 1917-18."

Dewsbury Dinner.

Before the war one of the most interesting and enjoyable functions connected with the Dewsbury Chemists' Association was the annual dinner. During the progress of hostilities that event was suspended; but a welcome revival took place on April 8, when a large company sat down to dinner under the presidency of Mr. W. Blakeley. The principal toast of the evening was "The Pharmaceutical Society," which was submitted by Mr. R. Broadhead, of Batley, who spoke in high terms of praise of the work achieved by the Society in connection with the war. Mr. F. Pilkington Sargeant (Leeds), in response, remarked that one of the pressing needs of the moment, so far as pharmacy was concerned, was the organisation of employers and employés, and that was a question which would have an important bearing on the Conference to be held in Easter week. This matter not only concerned local organisation, but national organisation, and he believed it would all end in the betterment of the position of pharmacy, not forgetting also the position of the assistant. If they obtain satisfactory organisation it would improve remuneration as a whole. The employers' organisation must be strong enough to demand higher remuneration both from the individual and the community; to obtain better profits on dispensing for the individual and also for contract dispensing under the National Insurance Act. As chairman of the Local Associations Executive, he could not enter into details as to what the remuneration ought to be, but he could tell them that the Executive were not satisfied with the remuneration being paid at present. He thought, however, that, having regard to the advances obtained in the past for pharmacists, they could have the fullest confidence in the Executive so far as the future was concerned. There was a complete unanimity in regard to the demand for increased remuneration. Some appeared to favour a flat rate of 6*d.* per prescription; others wanted an increase of 50 per cent. on the dispensing fees; while others asked for an increase of 2*d.* on each dispensing fee. But they were faced with grave difficulties. If the Ministry of Health was to bring about a co-ordination of the public-health services throughout the country it could not stop short of some interference with the business of pharmacists. After all, the pharmacist was a very potent factor in the administration of public-health matters, and such things could not be carried out satisfactorily without pharmaceutical assistance, and if that were to be given adequate remuneration must be required for it. Mr. S. N. Pickard, of Ossett, proposed "Kindred Associations," and this was responded to by delegates from Leeds and Bradford. Mr. Stewart Watts, clerk to the Dewsbury Insurance Committee, submitted "The Dewsbury and District Chemists' Association," and incidentally remarked that chemists are now getting less on the aggregate than they did under the old tariff.

A Record in Dinners.

The "Victory" dinner of the London County Pharmaceutical Association on Thursday, April 3, was surely a "record"—at least in numbers—so far as pharmacy is concerned. There were about 300 present, and the capacity of the immense dining-hall in the Connaught Rooms was taxed to its utmost. The huge company, representative of the retail, wholesale, and "professional" pharmacy of Greater London, was obviously out for enjoyment. The buoyancy in some quarters at times approached the boisterous, and a less experienced Chairman than Mr. John Keall might have found difficulty in keeping his team in hand. Among the celebrities supporting Mr. and Mrs. Keall at the top table were the President of the Pharmaceutical Society (Mr. W. L. Currie), Sir Kingsley Wood, M.P. (formerly Chairman of the London Insurance Committee), Colonel Nathan Raw, M.D., C.M.G., M.P., Mr. P. Rockliff (Chairman of the London Insurance Committee and President of the Faculty of Insurance), Mr. and Mrs. W. S. Glyn-Jones, Mrs. Edmund White, and Mr. and Mrs. Herbert Skinner. The spur tables were presided over by Messrs. J. T. Barrett, G. B. Barnard (Vice-President), J. C. Carter, A. R. Keith, John Murison, E. G. Price, C. A. Noble, W. E. D. Shirtliff, E. Skues, and H. S. Watson; and the P.A.T.A. table by Mr. Page Woodcock. The rule laid down by the Chairman regarding short speeches was in some cases more honoured in the breach than in the observance. The toast of "The Pharmaceutical Society" was given (at some length and amid signs of impatience) by Mr. G. B. Barnard. In his reply Mr. Currie repeated well-worn formulas with regard to the Society, incidentally mentioning the fact that there is to be no election for the Pharmaceutical Council this year as proof that the craft at large are satisfied with the work of the present Council. "Our Legislators" was given by Mr. W. S. Glyn-Jones in a trenchant speech, which was particularly well received. The toast was coupled with the names of Sir Kingsley Wood and Colonel Nathan Raw, and there seemed to be a humorous rivalry between the two speakers as to avoidance of reply on behalf of the House of Lords. Both claimed to speak solely for the House of Commons, Sir Kingsley Wood mentioning that before leaving the House he had had a conversation with Dr. Addison, President of the Local Government Board, regarding the Ministry of Health Bill. He had asked Dr. Addison pointedly if he could convey any message to the pharmacists present regarding the part that they would play in the working of any Health measure that might be put on the Statute-book. Dr. Addison had, he assured the company, expressed the firm conviction that pharmacists would be represented on the Consultative Councils, and that earnest and sympathetic consideration would be given to pharmacy generally. The best speech of the evening was that of

Colonel Nathan Raw. In relating his experiences at the Front he said the thing that had struck him most was the extraordinary cleverness and ingenuity that had been shown by manufacturing pharmacists and others connected with the trade in supplying all the fine chemicals, galenicals, tinctures, and surgical requirements that were needed for medical and surgical work in connection with the wounded. Three months before the war broke out in 1914 he had visited the Bayer Works in Germany. He found there 4,000 people employed, an immense and well-regulated establishment, and one of the directors informed him that the Bayer Co. made 30,000*l.* a year out of aspirin alone. When war broke out he (Colonel Nathan Raw) wondered whether our manufacturers would be able to rise to the occasion; but they had tackled the problem with such marvellous cleverness that there was practically no shortage until after about four years of war, and even then he found that the only articles they were really short of were glycerin, tincture of strophanthus, and potassium iodide. He paid a very high tribute indeed to the work of the women in medicine, pharmacy, and nursing, and said that while in Parliament he would be only too glad to assist pharmacists in any way if they would only bring their troubles to him. The next toast, proposed by Mr. Herbert Skinner, was that of "The London Insurance Committee." Mr. Skinner was commendably brief and to the point, and he asked Mr. Rockliff, who was down to reply, to do his best to double the remuneration to pharmacists and not to be too insistent, particularly in London, regarding early closing. In replying, Mr. Rockliff warned chemists that it was all very well to want shorter hours, but they must remember that the doctors were watching this early closing very keenly, and only needed an excuse to make a clamour for having the dispensing once more within their own control. He counselled pharmacists, therefore, to watch the doctors very closely, as they would not be slow to take advantage of any slip that the pharmacists might make in this regard. A pleasing interlude was the presentation to Mr. G. F. Tocher of a timepiece and cheque as a recognition of the excellent services he had rendered as Secretary of the Association. The Chairman made the presentation in a eulogistic speech, and Mr. Tocher modestly and briefly replied. The concluding toasts were "The Ladies and Visitors," proposed by Mr. C. A. Noble and replied to by Mr. Ernest Sanger, and "The London County Pharmaceutical Association," proposed by Dr. Henry Jackson and replied to by the Chairman. During the evening a musical programme was presented under the direction of Mr. Harry Dancey.

Westminster Wisdom.

By the "C. & D." Parliamentary Representative

Additional Bank Holiday.

Saturday, April 19, is to be an additional holiday for banks in Great Britain and Ireland, a proclamation to that effect having been issued.

Medical Section of the Ministry of Food.

Mr. McCurdy stated in the House of Commons on April 4 that this section is located at the New County Hall, and consists of a part-time medical adviser, two administrative assistants, and fourteen girl clerks. The weekly cost of the section, so far as salaries are concerned, is at present 46*l.* 18*s.* It is hoped to effect a considerable reduction of this expense in the immediate future.

Ministry of Health Bill.

The third reading of the Ministry of Health Bill was carried in the House of Commons on April 9. In the course of the evening an amendment was brought in to give the Ministry power to make the notification of venereal disease compulsory. It was pointed out that the amendment gave no further powers than were contained in the Bill, and it was withdrawn. Sir William Whitla said that compulsory notification would defeat its object, as it would lead to the concealment of the disease until it was too late.

German Potash.

Mr. Stewart asked the Parliamentary Secretary to the Board of Agriculture whether the Government have acquired 30,000 tons of potash from Germany and are about to dispose of it; whether it is to be sold through the Department or through ordinary business channels; and whether farmers are to have some preference when buying it.

Sir Arthur Boscawen replied that the subject is under consideration, but he was not able at present to make any announcement thereon.

Early Closing.

Sir Kingsley Wood asked the Home Secretary whether under the Early Closing Act [Shops Act] an assistant is given one half-day a week and there is no limit to the number of hours that may be worked; whether a young person under such Act may be employed as much as seventy-four hours a week; whether the present Early Closing Order is working satisfactorily; and whether he proposes to introduce legislation to secure better conditions for shop assistants and the early closing of shops.

Mr. Shortt, who replied, said that the member's statement of the existing law requires several qualifications, but he recognised the need for making further provision in regard to the hours of employment in shops, especially in the case of young persons. He hoped to be able to introduce a Bill dealing with the employment of young persons in shops and other occupations, but he could not indicate when the Bill would be introduced.

The War and Chemical Industries.

Lieutenant-Commander Craig, on April 9, asked the Chancellor of the Exchequer whether the metallurgical and chemical industries of this country have been largely developed during the war; whether he is aware that their maintenance and future expansion are largely dependent upon the provision of supplies necessary to them, and that such supplies in great degree must come from abroad; if he will explain why, having regard to the fact that the provision of supplies from new and competitive sources, wherever occurring, is intimately connected with questions of new issues of capital, no representatives of the metallurgical or chemical industries have been included in the new Capital Issues Committee; and whether he will recommend to the Lords Commissioners of His Majesty's Treasury the advisability of appointing representatives of these industries as members of that Committee.

The Chancellor replied that he thinks this Committee is already quite large enough for the work it has to do, but he is anxious to make it as representative as possible, and he will be glad to consider any suggestions he may receive of additional names to represent the interests of manufacturers.

Army Education Scheme.

The Secretary of State for War stated in the House of Commons on April 3 that an Army Order consolidating previous Orders and extending educational training in the Armies of Occupation is under consideration. In the Army at home, the Army in France and Flanders, the Army of the Rhine, and the Armies of the Middle East and at Murmansk, staff officers and officers attached to the General Staff supervise the scheme, and instructors are authorised on a maximum scale of four officers and twelve non-commissioned officers per 1,000 men. Subjects are grouped, so that, as a rule, instruction is given to all men in matters of general education—English, arithmetic or elementary mathematics, history, geography and civics, together with subjects chosen, to a limited number, from other groups which comprise languages, advanced history, commercial subjects to a high standard, engineering, pure science, and higher mathematics. Technical and trade classes are supplemented at home by arrangements specially made with the local educational authorities; in the Army of the Rhine, promising men are drafted from units to divisional corps or Army schools. There are at home two schools for officers in commercial and technical subjects, each taking 200 officers at a time for a month's instruction. Two schools, at Oxford and Newmarket, have been instituted to give intensive courses in the art of teaching to officers and non-commissioned officers who possess knowledge but have had little or no teaching experience. Army education certificates will be given to men who attend classes satisfactorily, and a special certificate to men passing examinations in their subjects of an advanced standard; this latter certificate has been recognised by the universities and leading professional bodies as exempting from matriculation or the entrance examination. All classes of officers and men may apply for instruction. Special arrangements are in force for the education of young soldiers, who attend classes as part of their military duties, as also do the men of the Army on the Rhine. Otherwise, no distinction is made, and the work actually going on includes alike elementary education, trade classes, work for the examinations of professional bodies, and work at a university level.

"I had lived for twenty years—from childhood to manhood almost—among Germans, and I knew them pretty well, and at the end of July 1914 I saw that Germany wanted war. I knew that all their endeavours would be to invade France, that they were decided to wage the war in such a way as to surpass themselves in methodical cruelty, scientific barbarism, and utter beastliness, and they have succeeded."—*Louis Raemaeker.*

Trade Report.

42 Cannon Street, E.C. 4, April 10, 3 p.m.

The improvement in business for home trade and export has been maintained this week, in spite of the unsettled conditions governing many fine chemicals. The realisation of Government stocks of raw materials is likely to affect the prices of a number of manufactured chemicals. An instance of this is afforded by the sale of a large quantity of Government carbolic acid in the United States, which has brought about a substantial reduction in the quotations for salicylic acid and salicylates and other phenol derivatives. The competition, therefore, between British and American makers of such products as salicylates, aspirin, phenacetin, and saccharin is expected to become keener than ever unless restrictions are imposed upon imports to protect the interests of the British manufacturers. Comparatively few changes have taken place this week, the principal reductions in prices being in aspirin, acid salicylic, soda salicylade and acid benzoic. Spices have shown a rather more active demand, and prices of white pepper, pimento, and cloves have recovered owing to a good Continental demand. Ginger is still depressed.

Higher	Firmer	Easier	Lower
Aloes, Socotrine Cardamoms Farina Rhubarb Soda crystals	Phenacetin Pimento Senega Soya oil	Acetanilide Gentian Senna	Barbitone Benzoic acid Calumba Cream of tartar Hexamine Paraldehyde Pot. sulphoguaiacolate Salicylates Salicylic acid Salol Sarsaparilla

Cablegram.

New York, April 9.—Business is fair. The markets show several reductions. Opium is now $19 per lb., menthol $5.85 per lb., dandelion-root 24c. per lb., copaiba 67½c. per lb. Salicylic acid is 25c., sodium salicylate 35c., methyl salicylate 35c., and salol 75c. per lb.

Acetanilide is slightly weaker at 2*s.* 9*d.* per lb. for spot delivery.

Acetic Acid.—Shipments from the United States are coming forward slowly, as many steamers decline to carry this product. Eighty per cent. pure is quoted at 80*l.* for spot delivery, and at 70*l.* for forward, whereas glacial 99 to 100 per cent. is obtainable at 90*l.* for spot delivery and 80*l.* to arrive.

Acetic Anhydride 85 to 90 per cent. is now obtainable at 5*s.* per lb. in demijohns.

Acid Benzoic.—English make is now more freely obtainable at 7*s.* per lb., and American is quoted to arrive at 6*s.* 3*d.*

Agar-agar.—The exports from Japan during December amounted to 56,750 kin, valued at 72,333 yen. During the year ended December 31, 1918, they were as follows:

	1916	1917	1918
Kin	2,785,710	2,106,942	2,639,456
Yen	2,446,862	1,954,983	2,969,311

The destinations were as follows:

To	1916 Kin	1917 Kin	1918 Kin
China	478,669	693,387	184,723
Hong-Kong ...	344,959	275,799	119,742
Straits Settlements	122,564	114,675	74,181
Dutch Indies ...	392,454	239,143	266,270
Asiatic Russia ...	152,396	877	803
Great Britain ...	325,461	226,244	1,595,260
France	327,296	93,259	33,570
United States ...	421,824	257,454	155,586
Other Countries ...	220,087	206,104	209,321
	2,785,710	2,106,942	2,639,456

Amidopyrin can be bought to-day for forward delivery at 60*s.* per lb.

Antimony.—Considering the slackness of demand, the Government stocks of regulus may easily show a further increase, and present prices are still too high to encourage buying. Comparatively low prices have been taken for small lots of spot Chinese regulus down to 35*l.*, although sellers of Japanese want about 38*l.* There is nothing doing in crude, and no reliable quotation is obtainable. The American market has continued weak, some difficulty being also experienced there in disposing of old stocks.

Areca.—Retail lots are selling at 100*s.* per cwt. on the spot.

Arsenic.—The position continues very unsettled, cheap offers still coming on the market, and there was lately another break to about 30*l.* With the home demand practically at a standstill sales are very difficult except at cut prices. Some little Continental inquiry is reported, but this will only tend to steady the market for a while. Sellers now ask about 31*l.* to 32*l.* Attempts by America to make sales in this market would cause no surprise.

Aspirin.—American makers appear to be determined to retain their hold on this market, and have recently reduced the price to 5*s.* 6*d.* per lb. We believe that a further reduction will take place before long.

Barbitone.—Keen competition between new manufacturers has resulted in the price being forced down to 50*s.*

Betanaphthol resublimed is in better demand at 7*s.* 6*d.* per lb.

Bismuth Salts.—The present quotations are as follows: Carbonate, 15*s.* 8½*d.*; subnitrate, 13*s.* 11½*d.*; citrate, 15*s.* 2½*d.*; oxide, 17*s.* 2½*d.*; subchlorate, 15*s.* 5½*d.*; nitrate cryst., 9*s.* 8½*d.*; salicylate, 14*s.* 1½*d.*; subgallate, 15*s.* 5½*d.*; tannate, 20*s.* 2½*d.* per lb. in 1-cwt. quantities.

Bromides.—Sales are steadily maintained. The quotations for potash soda and ammonia salts remain unchanged.

Camphor.—The exports from Japan during December 1918 amounted to 164,462 kin, valued at 370,035 yen. During the year the shipments were as follows:

	1916	1917	1918
Kin	5,753,862	3,119,915	1,764,217
Yen	6,287,795	5,304,157	3,686,375

The destinations were as follows:

To	1916 Kin	1917 Kin	1918 Kin
British India ...	1,416,041	1,082,490	361,179
Asiatic Russia ...	447,068	65,446	472
Great Britain ...	639,135	145,130	383,911
France	379,862	66,618	90,404
United States ...	2,654,438	1,493,135	595,622
Australia	92,605	112,400	94,946
Other Countries ...	124,713	154,696	237,683
	5,753,862	3,119,915	1,764,217

Camphor Oil.—The exports from Japan during December amounted to 88,582 kin, valued at 16,781 yen. During the year ended December 31, 1918, the exports were:

	1916	1917	1918
Kin	1,971,680	1,713,633	1,370,869
Yen	308,275	316,132	268,070

Canary-seed.—The fall in price has continued owing to the prospect of further arrivals from Morocco. The quotation is nominally 170*s.* to 190*s.* per quarter for ordinary to good Morocco on the spot.

Cascara Sagrada.—Spot sales of fair two to three year old bark have been made at from 112*s.* to 115*s.* per cwt.

Chloral Hydrate.—This article should attract more attention from buyers, as it is not believed that the price will recede any further.

Cinchona.—The exports from Java from January to November were as follows:

To	1917 Kilos.	1918 Kilos.
Netherlands	954,000	—
Great Britain	675,000	572,000
U.S.A.	556,000	1,063,000
Singapore	50,000	107,000
Japan	21,000	412,000
	2,256,000	2,154,000

Citric Acid.—There is a lively demand from America, which may have the effect of improving the spot value, which still remains at 4*s.* 4*d.*

Cocaine.—The makers have decided to reduce the price to 35*s.* for hydrochloride.

Coca-leaves.—The exports from Java and the countries of destination from January to November were as follows:

To	1917 Kilos.	1918. Kilos
Netherlands	13,448	—
Great Britain	4,105	—
U.S.A.	66,852	245,870
Japan	6,423	211,629
	90,828	457,499

Cod-liver Oil.—Our Bergen correspondent writes on March 31: The official report gives the following results up to March 29:

	1917	1918	1919
Catch of cod (millions)	16·7	10·0	12·1
Yield of c.l.o. (hect.)	25,000	10,200	12,600
Liver for "raw" oils (hect.) ...	2,600	1,700	1,600

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Copper-sulphate.—There has been no further arrangement amongst makers as to the regulation of export prices, the current basis f.o.b. Liverpool being still 48*l.* less 5 per cent. In our previous issue we referred to orders booked for shipment to Black Sea ports, and we are now given to understand that in all some 3,000 tons are involved, of which two-thirds are for Odessa and the other third for Batoum. A good portion of this, if not the whole of it, has already been shipped. This is worth noting, while it seems probable that after the signing of peace further good quantities will follow for other Black Sea ports.

Eucalyptus Oil.—There is inclination on the part of the principal holders to await developments rather than to force sales of their present stocks. It is confidently believed that an important demand from the Continent will set in shortly after peace is declared.

Gentian has an easy undertone at from 57*s.* 6*d.* to 60*s.* per cwt. on the spot.

Hexamine.—Stocks in this country have been appreciably reduced and dealers are holding out for 6*s.* per lb.

Lime Oil is plentiful and meets with little demand, fair West Indian distilled offering at 4*s.* 10½*d.* per lb. on the spot.

Lithia Carbonate is in better demand, and as the price is not likely to be lower this article can be safely taken into stock. The present spot quotation is 8*s.* 6*d.* to 8*s.* per lb., according to quantity.

Menthol.—The exports from Japan during December 1918 amounted to 14,772 kin, valued at 133,625 yen. During the year ended December 31, 1918, they were as follows:

	1916	1917	1918
Kin	386,458	251,210	237,311
Yen	2,410,628	1,594,327	1,544,307

The destinations were as follows:

To	1916 Kin	1917 Kin	1918 Kin
British India	24,707	14,853	21,093
Great Britain ...	143,148	62,870	117,899
France	69,184	2,722	3,728
United States ...	137,228	148,554	75,362
Other Countries ...	12,191	22,211	19,229
	386,458	251,210	237,311

Peppermint Oil.—The available stocks in America are extremely small, and the price has advanced to 44*s.* Japanese dementholised has been sold freely this week at 5*s.* 4½*d.* to 5*s.* 6*d.* There are sellers at the latter figure. The exports from Japan during December amounted to 38,337 kin, valued at 128,589 yen. During the year ended December 31, 1918, the exports were:

	1916	1917	1918
Kin	360,742	259,720	214,635
Yen	844,508	593,614	549,716

Phenacetin.—The stocks have been considerably reduced, and the price has improved to 10*s.* per lb.

Pimento is firmer, with a fair spot business up to 4½*d.*, closing 4¼*d.* buyers.

Potash Compounds.—As there appears to have been some misunderstanding with regard to the amendment of the Potassium Compounds Order, 1917, it is necessary to point out that the Order in question has only been rescinded in so far as kelp is concerned (*C. & D.*, March 22, p. 48), and that dealings in caustic, carbonate, chloride, and sulphate of potash must still be conducted under licences granted by the Potash Production Branch of the Ministry of Munitions. In the present condition of the potash industry it has not been considered possible to relax the control entirely.

Quinine.—The exports of quinine from Java from January to November 1917 and 1918 were as follows:

To	1917 Kilos.	1918 Kilos.
Netherlands	3,337	—
Great Britain	23,217	41,113
Europe	2,357	12,100
U.S.A.	16,546	32,219
British India	11,378	57,729
Singapore	5,951	23,288
China	14,073	9,758
Philippines	602	4,872
Japan	21,946	25,057
Australia	2,486	3,375
Other Countries	9,478	14,267
	111,371	223,778

Salicylates.—An unexpected change has taken place in the position in America. Owing to cheap sales of carbolic acid the makers of *salicylic* have been enabled to notify a substantial reduction in price, and B.P. acid powder can be bought to arrive at 1*s.* 4*d.* per lb. in quantity. The reduction in the price of *sodium salicylate* is more noticeable, as U.S.P. powder is now quoted at 1*s.* 10*d.* to 2*s.* *Methyl salicylate* can be bought to arrive at 2*s.* 6*d.* per lb.

Potash Iodide.—The exports from Japan during December amounted to 13,592 kin, valued at 94,460 yen. During the year ended December 31, 1918, the shipments were as follows:

	1916	1917	1918
Kin	166,473	165,403	184,950
Yen	1,189,536	1,039,689	1,156,469

Of *crude iodine* 5,390 kin, valued at 46,390 yen, were exported during December, and the exports for the year ended December 31 were:

	1916	1917	1918
Kin	3,044	47,370	61,389
Yen	17,096	331,479	407,028

Salol is cheaper in sympathy with salicylic acid, and is obtainable for forward delivery at 4*s.* 6*d.* per lb

Senega has been in fair demand on the spot, selling on one occasion down to 4*s.* 10*d.*, but the quotation closes at from 5*s.* 6*d.* to 5*s.* 9*d.* per lb.

Spirit (Methylated).—The following are fuller particulars of the decline in industrial and mineralised spirit announced last week:

	Industrial		Mineralised (Coloured Violet)	
	61 O.P.	64 O.P.	61 O.P.	64 O.P.
In one Delivery.	s. d.	s. d.	s. d.	s. d.
100 gals. and upwards ...	6 6	6 7	7 5	7 6
30 ,, ,, under 100 ...	6 7	6 8	7 6	7 7
10 ,, ,, ,, 30 ...	6 9	6 10	7 8	7 9

Any quantity taken in packages of 12 gals. or less to be charged 1*d.* per gal. extra, excepting where the 10-gal. rate applies. Methylated resin finish, 2*d.* per gal. extra, methylated shellac finish, 6*d.* per gal. extra over the prices quoted for industrial spirit. Terms: Cash in one month, less 2½ per cent. Carriage paid. Packages to be returned or paid for. No order will be accepted or executed except on the express understanding that it is charged at the prices and conditions ruling on the day of dispatch of the order.

Valerian-root.—Belgian of recent import can be had at 300*s.* on the spot.

Mercurials.—The new scale of prices is as follows: Corrosive sublimate, 5*s.* 7*d.*; calomel, 5*s.* 11*d.*; per-sulphate, 5*s.* 1*d.*; white precip., 6*s.* 7*d.*; red oxide crystal, 6*s.* 10½*d.*; red oxide leviss, 6*s.* 5*d.*; yellow oxide, 6*s.* 3*d.*; sulph. nig., 4*s* 11½*d.* per lb. in 1-cwt. lots.

London Drug-auctions.

Commercial Sale Rooms,
Mincing Lane, April 10.

A large supply of rather interesting drugs was offered to-day, but the business done was comparatively small. Cardamoms sold well at full prices. There was a large supply of honey offered, but the sales were by no means large, and prices were fairly steady. Senna, both Tinnevelly and Alexandrian, was also offered in some quantity, but both were neglected. Calumba-root sold well at firm rates. Among the curiosities was a cheap lot consisting of "one bottle of calcium glycerophosphate, one bottle sodium, one bottle of pancreatine, and one bottle of ol. carin. Ang. opt.," which was sold at 20*s.* for the lot. There were also parcels of elderberries, euphorbia pilulifera, egg yolk, and hen albumen, but they were all coldly neglected.

The following table shows the amount of goods offered and sold:

	Offered	Sold
Aconite-root	14	0
Agar-agar	1	1
Almonds	33	0
Aloes—		
Cape ... ... (cs.)	122	5
Curaçao (boxes)	7	3
Socotrine ...(kegs)	80	80
Annatto-seeds	254	0
Anise, star (Ch.) ...	50	0
,, oil, star	11	0
Areca nuts	48	0
Argol (Cape)	4	0
Belladonna-leaves ...	13	0
,, -root ...	20	0
Benzoin	192	0
Palembang	18	9
Siam	11	0
Sumatra	45	8
Burdock-root (Jap.) ...	24	0
,, ,, (Belg.) ...	13	0
Calumba...	256	43
Cannab. ind. (African)	15	0
,, ,, (Indian)	4	0
,, ,, (Cape) ...	13	0
Cantharides	1	0
,, (Ch.) ...	39	0
Cardamoms	151	45
,, wild ...	10	0
,, -seeds ...	6	6
Cascara	£65	0
Casein	438	0
Cassia	27	0
Celery-seed	16	0
Chamomiles	69	0
Cinnamon-leaf oil ...	10	0
Cochineal	12	0

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	Offered	Sold
Colchicum-root	3	0
Colocynth	39	0
,, (Turkey)	3	0
Condurango	20	0
Coriander	100	0
Cumin	94	70
Cuttlefish-bone	303	*50
Dandelion-root	25	0
Dill-seed	40	0
Dragon's-blood	2	0
,, (Singapore)	5	0
,, (Zanzibar)	5	0
Elderberries, dried	13	0
Ergot	10	0
Essent. oils—		
Orange / Lemon / Bergamot	4	2
Euphorbium	15	0
Fennel-seed	293	0
Fenugreek-seed	40	0
Gamboge	18	0
Gentian	119	0
Gum ghatti	46	0
Grindelia robusta	12	12
Guaiacum	2	0
Henbane	8	8
Honey—		
Argentine	20	0
Australian	1,545	32
Brazilian	62	0
Californian	854	60
Cape	20	0
Chilian	23	16
Cuban	455	16
Demerara	35	35
Dominican	1	1
Haitian	106	12
Jamaican	54	23
Japanese	40	20
Moroccan	5	0
San Domingo	40	0
West Indian	75	0
Ipecacuanha—		
Cartagena	10	0
Matto Grosso	20	12
Kola	26	3
Lemon-peel	16	0

	Offered	Sold
Lime oil	5	0
Lime-juice	6	0
Liquorice-root	276	0
Lycopodium (cwt.)	2	0
Menthol	16	8
Musk-seed	5	0
Myrrh	29	11
Nux vomica	1,797	0
Olibanum	112	*40
Orange oil (cs.)	19	0
Orange-peel	18	0
Peppermint oil (cs.)	8	8
Rhubarb	26	14
,, (Ch. rapontica)	20	0
Sarsaparilla—		
Jamaica	110	53
Lima	35	0
Mexican	10	0
Savin-leaves	5	0
Scammony-root	56	56
Senna and pods—		
Alex.	158	9
Tinnevelly	329	4
Squill	68	0
Stavesacre-seeds	53	0
Strophanthus	32	0
Tonka-beans (Para)	5	0
Tragacanth	28	0
Turmeric	535	160
,, (Madras)	200	0
Turtle, dried	9	9
Valerian	6	0
,, (Indian)	40	0
,, (Belg.)	52	0
Venice turp. (artificial)	1	0
Wax (bees')	80	16
Abyssinian	298	0
Benguela	371	0
Bombay	10	0
Calcutta	20	0
Carnauba	80	20
Cuban	51	0
East African	598	0
East Indian	25	0
Jamaica	8	0
Mozambique	123	0
West Indian	5	0

* Sold privately.

Aconite-root (Japanese).—There was no demand for this drug, which was bought in at 70*s*.

Agar-agar.—One bag was sold without reserve at 9*d*. per lb.

Aloes.—Socotrine aloes of good quality sold at 190*s*. to 192*s*. 6*d*. per cwt. Three boxes of Curaçao were sold at 130*s*., and the remainder taken out at 135*s*. For good hard bright Cape 54*s*. per cwt. was obtained, and for good seconds 53*s*.

Annatto-seeds.—A plentiful supply was bought in at 6*d*. per lb.

Anise Oil, B.P. (solubility 1 in 3 volumes of 90 per cent. alcohol), sold at from 4*s*. to 4*s*. 2*d*. per lb.

Benzoin.—Sumatra fair seconds sold at 11*l*. Ordinary seconds at 10*l*. 5*s*., ordinary thirds 8*l*. 10*s*. to 9*l*. Fair glassy Palembang was withdrawn at 6*l*., nine cases of fair thirds selling at 9*l*. 10*s*. Siam blocky second almonds was withdrawn at 45*l*., and blocky bean and pea size at 38*l*.

Burdock-root.—Twenty-four bags of Japanese and 13 bags of Belgian varieties were offered, but no one seemed interested.

Calumba-root was in large supply, 256 bags being offered, but only 43 sold at 90*s*. per cwt.

Cannabis Indica from Bombay was offered in small quantity at from 16*s*. 6*d*. to 17*s*. per lb. African was bought in at 2*s*. 9*d*. per lb., and Cape at 3*s*. 6*d*.

Cardamoms.—Good bold pale Mysores realised 5*s*. 6*d*. to 5*s*. 11*d*. per lb., one lot reaching as high as 6*s*. 5*d*.; mediums fetched 4*s*. 3*d*. to 4*s*. 5*d*., and small 3*s*. 3*d*.; reddish Mysores, 2*s*. 9*d*. to 3*s*. 1*d*.; fair grey Ceylon seeds sold at 2*s*. 6*d*. For good pale Malabars the price was 4*s*. 10*d*., for the brown variety 2*s*. 11*d*. to 3*s*., and for the green 3*s*. 1*d*.

Chamomile-flowers.—Of the large quantity offered none at all was sold, the reserve price ranging from 210*s*. to 240*s*. per cwt.

Colocynth.—Of Turkey, three cases were offered in auction, and 1*s*. per lb. was bid, but was refused, the limit being 1*s*. 3*d*.

Cuttlefish.—Fifty mats were sold at 7*d*. per lb.; all the rest was bought in.

Dandelion-root.—Twenty-five bales of English root of good quality were offered, but there was no bid; the reserve price is 90*s*. per cwt.

Dragon's-blood.—Zanzibar was bought in at 45*s*. per cwt., and Singapore varieties at 9*l*. 10*s*. to 15*l*. 15*s*.

Fennel-seed.—A large supply was offered, but none sold, the limit being 40*s*. to 50*s*. per cwt.

Grindelia Robusta.—Twelve bales were offered without reserve, and sold at from 11*d*. to 11½*d*. per lb.

Henbane.—Eight bales from the Sudan were sold privately, but the price was not mentioned.

Honey.—Jamaican sold at from 60*s*. to 90*s*. per cwt. Cuban was in fairly large supply, but only a few cases sold at 60*s*. Australian realised from 40*s*. to 51*s*. per cwt., according to quality. Haitian sold at from 69*s*. to 70*s*. for ordinary varieties. San Domingo did not sell, but was bought in at from 75*s*. to 78*s*. Californian, it was stated, had been sold privately at 90*s*. per cwt. during the week. Ten cases were knocked down in auction at 87*s*. 6*d*., and 60 cases were sold at 85*s*. All the Demerara offered was sold at from 50*s*. to 60*s*., but Morocco was neglected. Twenty cases of Japanese sold at 57*s*., and it was intimated that 16 cases of Chilian had been sold privately at 70*s*. One case of Dominican sold at 60*s*., and 15 cases of Australian at 51*s*.

Ipecacuanha.—For good Rio 10*s*. was offered, but refused, the lot being bought in at 10*s*. 3*d*. Matto Grosso sold at prices ranging from 9*s*. 8*d*. to 10*s*. 3*d*.

Kola-nuts.—One barrel and two bags from Grenada were sold at from 6*d*. to 6½*d*. per lb.

Menthol.—Six cases offered openly, no bond being required, were sold for account of the Admiralty Marshal at 20*s*. 9*d*. per lb. Of 10 cases of Kobayashi, "with all faults," two sold at 20*s*. 6*d*., the bulk being reserved at 21*s*. 6*d*.

Myrrh.—Four bags sold at 15*l*. 10*s*. per cwt. for slightly blocky sorts, and seven better quality were sold at 18*l*.

Nux Vomica met with no demand at auction. Supplies were bought in at prices ranging from 32*s*. 6*d*. to 40*s*.

Olibanum.—Good pale drops were withdrawn, and blocky at 75*s*. Dark sittings, part blocky, were withdrawn at 45*s*.

Orange-peel.—Higher prices for this drug was demanded, and no sales were made. Supplies were bought in at 2*s*. 3*d*. to 3*s*.

Peppermint Oil.—Eight cases Suzuki were sold at 4*s*. 10*d*. per lb.

Rhubarb.—For fine Shensi 4*s*. was offered, but not taken. Two cases of round pickings sold for 2*s*. 11*d*. per lb. Eight cases fair quality sold at from 3*s*. 2*d*. to 3*s*. 6*d*.

Sarsaparilla.—In view of the excessive stocks on the spot, holders have been selling privately at lower prices since the previous auction, the sales including Lima-Jamaica at 3*s*. and Mexican at 2*s*. 9*d*. Jamaica sold from 2*s*. 4*d*. to 3*s*. per lb., the bulk being withdrawn at 3*s*. 6*d*.

Scammony-root.—Some sea-damaged (six bags) sold at 3*d*. per lb. The remainder sold at 4½*d*. to 8*d*., a price which the seller characterised as "dirt cheap."

Turmeric.—Prices were 29*s*. to 30*s*. per cwt. without reserve; 160 bags were offered and sold. Other fair quality was withdrawn at 35*s*.

Wax, which was in large supply, failed to attract buyers. East African was held for 9*l*. 5*s*. per cwt., Benguela 9*l*. 12*s*. 6*d*., Jamaica 9*l*. 10*s*., Mozambique 8*l*. 15*s*., and Cuban 8*l*. 10*s*.

Copenhagen's Future.

An article in the "Hamburgischer Correspondent" points out that in future commerce between England, America, and Scandinavia will be conducted almost exclusively *via* Copenhagen. It has frequently of late been pointed out, both in England and America, that excellent arrangements exist in Copenhagen for distributing all goods from those countries destined for Finland *via* the Baltic, and also that in that city ample capital is available for enlarging the factories and meeting increased English and American demands for Scandinavian goods. Hamburg has hitherto been a powerful rival to Copenhagen, but since the collapse of Germany and the victory of the Allies its importance has diminished. That America is fully alive to the excellent situation of Copenhagen is shown by the fact that for some time large American import and export firms have been looking round for business premises in the city, and have been establishing close relations with large Danish firms. Not long ago a very large New York bank bought several houses close to the Copenhagen Stock Exchange, and intends to erect a branch office in order to establish permanent connections between American and Danish capital. In all probability America has been greatly impressed by the excellent harbour facilities in Copenhagen, and it is certain that the city has been making efforts to extend her harbour so as to be prepared in time to deal with the coming traffic. The additions to the harbour have an area of 7 het., and constructional costs are estimated at kr.106 mill. The interest shown in Copenhagen by the English and Americans has attracted great attention in Danish commercial circles, which are counting upon a new period of prosperity for the city and the whole commercial life of Denmark.

Correspondence

Insurance Dispensing.

Sir,—We are now receiving panel prescriptions on a new kind of form in which the multiple-price columns have been replaced by the usual shillings and pence column (but no place for pounds). Is this the shadow which forecasts the coming event of some new scheme of flat-rate pricing in which the long-suffering panel chemist is to be deprived of his meagre though just dues to the third decimal part of a penny?

Yours faithfully,
Decimal Point. (91/8.)

Sir,—An increasing number of panel chemists write the date of the original prescription on the label, presumably to curry favour with the doctors, who direct the patient to bring the bottle, and then simply copy the label. This is a most pernicious habit for the following reasons:

1. It nullifies the Insurance Committee's instructions that the medical practitioner shall provide the original date of the mixture required.

2. It may lead to grave mistakes. Cases have been known where John Smith, the son, borrowed an empty bottle from John Smith, the father, and was given a script "Rep. mist."; also where one sister who had not attended the panel doctor took a bottle belonging to another sister who had been under treatment and was duly provided with a repeat.

3. It may further lead to abuse, as it would be possible for a person who was not on the panel at all to borrow a bottle and obtain a repeat.

Many chemists probably write the date on the label without thinking of these consequences, but perhaps they will now reconsider the reasons for the practice.

Yours, etc.,
Edward Morrow.

Are Amateur Photographers Enthusiastic?

Sir,—Enthusiasm as applied to the modern practice of photography by amateurs is a word much misapplied. Can money be spent with enthusiasm? It is good for trade, of course, that men and women are willing to sacrifice six or seven shillings for the sake of one or two quite indifferent photographs. I am thinking of many instances when one has to submit a bill of costs—certainly for work done—but for results hardly worth wrapping up. And such persons are often referred to as enthusiastic. I cannot believe that the big advance in the prices of all photographic material has been entirely genuine—any more than in many other commodities. Dry plates have reached a price far beyond the days when dry plates were quite a novelty. There may have been a scarcity of window-glass, and gelatin has gone up, and labour (in the last year or two), but silver is and has been fairly cheap. And when you work it out, gelatino-bromide-emulsion is by no means dear. In short, let me hear of amateur photographers starting to make their own plates, as was common in the 'seventies and 'eighties, and I will call it enthusiasm. I started in 1879 with a 5 × 4 outfit, and my first box of Swan's plates cost, I think, 3*s.* 6*d.* I at once decided to make my own, and did. Sir Wm. Abney's formula is as good to-day as when it was first published. I followed the simplest, and the only difficulty I met with was in the drying of the coated plates. It is not easy to understand until one tries it the difficulties met with in constructing a cupboard which will be perfectly light-proof and at the same time admit of the proper flow of dry and pure air. It is not surprising also what really good plates one can make if you can hit at last on the perfect drying-chamber. If the amateur were really enthusiastic, he would want to know things and experiment for himself. For speed they would, of course, fall short of what we are used to, but even this is relative, and an emulsion allowed to mature will often turn out very sensitive indeed. And as to speed, by the way, I have known snapshots to be taken with wet collodion. There was also in these early days procurable Kennett's Pellicle, a gelatino-bromide-emulsion dried and cut into strips. Sold in small bottles, carefully protected from light, these strips of dried emulsion were dissolved in water and the fluid then poured over glass plates, carefully cleaned and prepared. I remember that the results were quite good, provided always that the drying-chamber was in perfect working order. Is this a commodity worth reviving? Is the enthusiasm so often talked of of the kind to make this a paying venture? I am afraid not. In the old days I got many hours of real pleasure working with wet collodion, and some of the old positives made with the process were really beautiful. There must be still about in some of the shops plenty of suitable apparatus: cameras of that period were built to last for a century or so. Here is a tip for any enthusiastic amateur—and as a side-show for a garden-party it would be popular: A portable dark room, a pail or two of water, necessary chemicals, glass plates, spirit lamp, mats and trays (binding apparatus), etc. Two young people, turn and turn about, could work this kind of thing to some purpose, and would get as much pleasure out of it as their patrons. The beautiful tones or colours obtainable when there was sufficient leisure to experiment with mercury, gold, and platinum chlorides were remarkably interesting.

J. P. N. (114/18.)

"'Square' Topics."

Sir,—Kindly permit me to inform your readers that there will be no further issue of "'Square' Topics" until after the meeting of the Pharmaceutical Council in May—this in view of the paucity of matter requiring comment during the past month. Readers of "'Square' Topics" will be interested if they refer to the issue of September 30, 1918, to observe how closely events are now approximating to the state of affairs I then suggested as desirable.

Yours faithfully,
Hugo Wolff.

21 Hart Grove, Ealing Common, London, W. 5.

Apothecaries' Assistants.

Sir,—I disagree entirely with "Xrayser II," and those of your correspondents who insist on the injustice to examined men of admitting to registration men who have not passed the same examination as they. Where is the injustice to the "M.D." or "M.B., C.M." in admitting to the Medical Register the L.A.H. or L.S.A., who have not passed quite the same examination. The Apothecaries' Assistants examination is a qualification to dispense for an apothecary, and surely it is good enough to dispense for the public. As to the framing of the by-law being the opening of a "back door" in Galen Place (as "Xrayser II." remarks), well, if that is so he must blame the Poisons and Pharmacy Act, 1908, and not the Pharmaceutical Society for carrying out the Act. I fail to see how registering the "Hall" men as chemists will affect the Minor men. How many of the apothecaries' assistants have the training or ability to run a business? The only advantage they will get by being registered is that of being able to dispense for the public and to sell a few poisons. According to the Act these persons are to be registered without further examination, but they have not been examined on the law relating to the keeping, selling, and dispensing of poisons, and this is where the Pharmaceutical Society can insist on imposing an examination. The by-law should include a clause compelling the Apothecaries' Society to raise the standard of the examination to that of the "Minor" for future candidates.—Yours truly,

Fairplay. (112/19.)

Sir,—I notice that several people have been advocating that wholesale houses should restrict the sale of poisons to registered men. These people would be better employed in putting their own house in order. If a list could be published of morphia, laudanum, and cocaine prosecutions during the past year or two it would be interesting. It is fortunate for some of these chemists that there is for them no penal code like that for doctors, whom they try to imitate. Unregistered men can purchase these drugs, but one very rarely sees a prosecution, because in the majority of cases they abide by the law, whereas the registered man frequently fancies he is a law unto himself. A few years ago I was offered a business by a registered man, and was astonished to read in his letter that he had two or three wealthy customers who were laudanum-drinkers, purchasing a large quantity every week, for which an inflated price was charged. Regarding the registration of unqualified men, I think the majority care little whether this comes off or not: there is plenty of scope for both. But I certainly think the man who has served a proper apprenticeship and been in the trade on his own account, with a number of years' experience previously, should have some sort of recognition. This would greatly strengthen the Pharmaceutical Society. Yours truly,

Agricola. (112/64.)

Sir,—I would go one better than "Student" (*C. & D.*, April 5, p. 70) and allow men who have been in the ranks to pass an easy Modified examination, without making a three months' college course necessary, though advisable. Many cannot afford the three months' course.

Yours faithfully,
T. H. Naylor, Ph.C.

Sir,—I have read with amusement the letters by "Disgusted Life-member" on the subject of the registration as chemists and druggists of persons who hold the Apothecaries' Assistants' certificate. I must admit that some points in his letters are quite sound, but he is labouring under a hypothetical grievance. In my own case I have been demobilised three months, after close on four years' service with the Forces, and now that I have returned I am to start at the bottom to try to regain the time I have lost. I waste several months in college, and then, if successful, qualify to occupy a position which but for the war I should probably have held four years ago. Could not some arrangement be arrived at to help other unfortunates like myself? Why not have two grades of examination with two distinct qualifications—(1) qualified assistant; (2) qualified chemist? The first one could be an easy examination to see if the candidate is capable of acting as a dispensing assistant, and the other for those who wish ultimately to have a business of their own. This would help to obviate the labour trouble, because it is not everyone who can afford, after four years in the Army, to spend six months in college, at a cost of at least 100*l.*, in order to earn a few shillings more per week. They would rather stay as they are at present, only, with a grievance.

Yours truly,
C. E. W. (112/39.)

Sir,—With regard to the placing of Apothecaries' Hall assistants on the Register of Chemists and Druggists—which all who have passed the Minor have the right most bitterly to resent—could not the Apothecaries' Hall certificate be used as a stepping-stone to the Minor? The suggestion is, that those who have studied in a recognised school of pharmacy and can prove they have had practical experience in a chemist's business, and have gained their Hall certificate, should be allowed to cancel the Preliminary and proceed to study for the Minor qualification. After all, the Hall curriculum is in the same family as the Minor (if a distant and poor relative), while the Preliminary has little bearing on the subjects which are of practical value to the pharmacist in his business career.—Faithfully yours,
Lilian Bridges.

Sir,—As a member of the Pharmaceutical Society of Great Britain I consider it my duty to join in the protest against the contemplated registration as pharmacists of Apothecaries' Hall assistants. Upon what grounds do the Council of the Pharmaceutical Society justify their intentions? The Apothecaries' Hall examination is distinctly easier to pass than the Minor, and may be taken piecemeal without having received a preliminary examination in general education. The maximum period of time necessary to qualify for it is nine months, against three years for the Minor. This being the case, to grant the Apothecaries' Hall assistants registration without examination is a retrograde step—a considerable lowering of the standard necessary to qualify as a pharmacist, and this at a time when other contemporary callings are raising their standards. Small wonder that many really good men become so disgusted with pharmacy and leave it for other walks of life! It is what one might expect from an antiquated Council, and the sooner the majority of the "Old Gang" are unseated and the progressive substituted the better for pharmacy. What have the Council done for those who, having been years in the trade (or profession), were studying to qualify when they answered their country's call? Many of these men have now returned, and the far-sighted, benevolent Council, out of gratitude, offer to discuss their claims to compensation after next October. Meanwhile they may starve for all the Council seem to care. Any man who decides to train at a college forthwith is debarred from having his case considered owing to his impatience over the dilly-dally methods of the Council. Again, what of those who have gone through their training and examinations? Are they to be betrayed by granting registration to Apothecaries' Hall assistants without further examination? If these latter feel they are competent to be registered as pharmacists, then let them prove it by passing the Minor the same as others have done. Let the Council remember that they exist for the benefit of pharmacy, and not pharmacy for them, to be moulded like clay in any manner that pleases their fancy. If the numerous protests against this underhanded proposition go unheeded, I suggest a mass meeting of pharmacists and a strongly-worded resolution as a means to make the Council heed.—Yours faithfully,
F. Victor Wood, M.P.S.

Stockwell, London, S.W. 9.

An Australian pharmacist writes: "I receive the *C. & D.* regularly, from which I derive great knowledge and read with pleasure the doings of the chemists of the United Kingdom. I like the way in which you work for the betterment of pharmacists in general. It is always a happy day when the *C. & D.* arrives."

Legal Queries.

Most difficulties in trade law are explained in the legal section of "The Chemist and Druggist Diary," 1917, beginning on page 353.

A. A. C. (108/46).—Spirit-duty Rebate is not allowed on spirit used for the manufacture of perfumes. Full particulars must be given of the use of spirit upon which rebate is claimed.

J. T. R. (96/48).—Your qualification as a chemist will not cover both your main and branch businesses. It is a question even whether you, a chemist, may legally carry on a branch business as a drug-store under unqualified management.

T. G. S. (103/15).—Liability to Medicine-stamp Duty.—The label used for the antiseptic mouth-wash makes the preparation liable to stamp-duty because of the recommendation that the preparation is "excellent for cold in the head," and also may be used "for wounds of all kinds." Ulcers in the mouth for which the wash is to be employed are also classed as an ailment.

Yorkist (99/74).—(1) Applications for licences to open new businesses in Yorkshire should be made to 47 Pilgrim Street, Newcastle-on-Tyne, if for the Cleveland district; or to Harewood Barracks, Woodhouse Lane, Leeds, if in any other part of the county. (2) You will require to register the business name, whether carrying on wholesale or retail trade, if the name does not consist of the true surnames of the persons carrying on the business, without any addition other than the true Christian name or the initials of the Christian name. Forms for registration are obtainable at the principal post-offices.

B. & Co. (113/11).—Sale of Camphorated Oil.—There is no alteration in the law in regard to what is camphorated oil. The standard laid down in the British Pharmacopœia is the one which the Courts accept when prosecutions under the Sale of Food and Drugs Acts are brought before them. The oil made with liquid paraffin or oils other than olive oil can only be sold after notice has been given to the purchaser that it is not the Pharmacopœia article. There has been some laxity in the matter during the last few months on account of the fact that edible oils may not be used for other purposes than human food. This restriction has now been withdrawn, and lin. camph. made with olive oil will be restored to the British Pharmacopœia at the end of this month.

G. P. (93/24) has sub-let a portion of his business property, unfurnished, at a rent of 7*s.* 6*d.* a week. There is no agreement as to repairs, although "G. P." has been in the habit of doing ordinary repairs. Recently pipes burst in consequence of frost, and the tenant, without consulting "G. P.," had the pipes repaired and charged to "G. P." Is "G. P." liable to pay for the repairs to the pipes? Also is "G. P." entitled to obtain possession of the premises which he requires for his own use? ["G. P." is not liable to pay for the repairs to the pipes. If he "reasonably" requires the premises for his own occupation the Court may give "G. P." possession of the premises in the event of the tenant failing to vacate them after the tenancy has been terminated by proper notice.]

A. J. C. (98/18), writing in regard to the deduction from his account with the Insurance Committee of his proportion of the expenses of the Pharmaceutical Committee, asks whether this can be done legally, especially in view of the fact that our subscriber gave the Insurance Committee notice that he would object to any deduction. [We do not think "A. J. C." can escape his liability to pay his share of the expenses of the Pharmaceutical Committee, inasmuch as Section 33 (2) of the National Insurance Act, 1913, authorises the Insurance Committee to deduct this money if requested by the local Pharmaceutical Committee. The latter Committee, of course, having been originally elected by the chemists in the area, is understood to represent them in this matter, and to be entitled to act on their behalf. At the same time, if our correspondent desires to check his own prescriptions, all that is necessary is that he should formally demand to have them returned to him for that purpose by the Clerk to the Insurance Committee after they have been priced. He retains the right to check his own prescriptions, but he must consider himself bound to pay his share of the working expenses of the Pharmaceutical Committee. He ought to appreciate the fact that the major part of these expenses is probably incurred for services other than the checking of prescriptions, and it seems unreasonable of him to object to pay his share, even as a matter of principle.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

J. B. (106/9).—Tingle's Test for Nitrates.—The following is the test as given in the *C. & D.*, November 20, 1915:

The reagent employed is prepared by dissolving 2 grams of salicylic acid in 30 c.c. of concentrated sulphuric acid. A very small quantity of the powder to be examined is heated in a test-tube with a few drops of this reagent. A drop of the resulting liquid is transferred to a white porcelain slab by means of a glass rod and two or more drops of a concentrated solution of potassium hydroxide are added—enough to produce an alkaline mixture. The production of an orange or yellow colour indicates the presence of a nitrate.

Sachet (106/39).—Sachet-powder Basis.—It is generally found that vegetable powders are more satisfactory as bases for sachet powders. The following are examples:

I.		II.	
Bran	ʒvij.	Ground rice	ʒiv.
Powdered orris-root	ʒj.	Powdered orris-root	ʒiv.-ʒxij.
Mix.		Mix.	

The proportion of liquid perfume required is about one dram to the ounce of base.

C. B. (29/3).—Syphilis Prophylaxis.—The original formula for Metchnikoff's pomade consisted of calomel 1 part, lanolin 2 parts, but this has been found too hard for easy use. The "British Medical Journal" gives the following recipe for *Calomel Cream*:

Levigated calomel	4 parts
Liquid paraffin (by weight) ...	1 part
Hydrous wool-fat	7 parts

To be filled into collapsible tubes of pure tin, size $\frac{3}{8}$ in. by $1\frac{1}{2}$ in., with elongated nozzle about $\frac{13}{32}$ in. long, $\frac{3}{32}$ in. diameter, parallel for two-thirds of its length from neck, but having a curved taper for the terminal one-third. The cap to slip slightly over the nozzle and to be secured by an indentation near its base, or by the edge of the cap being burred into a shallow groove at the base of the nozzle; the cap to be sufficiently firmly fixed to resist pressure of filling, but to be easily removed when the calomel cream is required for use. All parts of the nozzle to be quite smooth and free from sharp edges. Each tube contains 35 to 40 grains of the cream and is packed in a small stiff cardboard box.

T. R. P. (103/13).—Liquid Soap.—The following is one of the recipes for liquid soap given in "Pharmaceutical Formulas":

Sodium hydrate	40 grams (ʒx.)
Potassium hydrate	40 grams (ʒx.)
Cottonseed oil	500 c.c. (℥xviiss.)
Alcohol...	250 c.c. (ʒviij. ʒvj.)
Distilled water to 2,500 c.c.	(℥lxxxviij.)

In a suitable container, preferably a glass-stoppered bottle, dissolve the potassium hydrate and the sodium hydrate in 250 c.c. (ʒviij. ʒvj.) of distilled water, add the alcohol, and then the cottonseed oil in three or four portions, shaking vigorously after each addition. Continue to agitate the mixture occasionally until saponification has been completed. Then add the remaining portion of distilled water and mix. A simpler method of making the preparation is to add spirit to soft soap until it is of a suitable consistency.

C. W. M. (98/30).—The following are the recipes for which you inquire:

Compound Syrup of Figs.

Ext. cascar. sag. liq.	ʒiv.
Ext. sennæ leg. liq.	ʒviij.
Sp. cinnam.	ʒi.
Sp. myrist.	ʒi.
Tinct. rhei co.	ʒiiiss.
Syr. ficorum ad	Oiv.

Influenza Mixture.

Ac. carbol. liq.	♏xviij.
Aq. dest. ad	ʒviij.

Dose: ʒss. to ʒi.

T. C. M. (103/46).—Chemical Fertilisers.—Formulas for fertilisers were given in The Chemist and Druggist, December 11, 1909, p. 916, and a longer article in *The Chemist and Druggist Diary*, 1911, p. 222, from which you will be able to make a selection to suit your purpose.

A. T. E. (99/51).—Balsam of Linseed, Horehound, and Honey.—The following is the formula for which you ask:

Oxy. scillæ	ʒij.
Ext. glycyrrh.	ʒss.
Chlorof.	♏xviij.
Ext. ipecac. liq.	♏xij.
Ext. marsubii liq.	♏xij.
Ol. menth. pip.	♏iv.
Ol. anisi	♏iv.
Theriacæ	ʒss.
Sacch. ust.	q.s.
Muc. lini ad	ʒvi.

H. W. M. (79/21).—We know of no other work than "Pharmaceutical Formulas" dealing with the manufacture of flavouring and soluble essences.

H. S. (74/33).—Sciatica Remedies.—The following is the result of our examination of your samples: *The Liniment* is a clear, colourless liquid smelling of chloroform and with a sp. gr. 1.494. The residue on evaporation amounts to 0.06 per cent. of the total solids. The residue gave reactions for alkaloids, but the tests for aconitine were not very distinct. A similar preparation could be made by dissolving aconitine $\frac{1}{4}$ gr. in an ounce of chloroform. *The Draught* contains turpentine and liquid paraffin, whilst the lower yellow aqueous layer contains vegetable matter, but the amount of the mixture available was too small for proper tests to be made.

Cotopaxi (85/49).—We are not acquainted with any book dealing specially with the action of superheated steam on chemicals.

A. G. (90/19).—Preliminary Examination.—The Army educational scheme includes a course of instruction for an examination which the medical and pharmaceutical authorities have agreed to accept from candidates as evidence of education of the Preliminary standard. In regard to these and the other examining bodies to which you refer you should make direct inquiries, as many Universities have made special regulations regarding the admission of students whose training has been interrupted owing to the war.

H. B. (89/27).—Books on Drug-growing.—Recent publications are Teetgen's "Profitable Herb Growing and Collecting" ("Country Life" Office, 3*s.* 6*d.*); Ellis's "Medicinal Herbs and Poisonous Plants" (Blackie, 2*s.* 6*d.*); and "The Cultivation and Drying of Medicinal Plants" (E. M. Holmes, "Ruthven," Sevenoaks, 1*s.*).

A. W. (107/2).—Gastrectasis means dilatation of the stomach. The best treatment is dry food, with the minimum of starchy and sugary food. Ten grains of guaiacol carbonate in cachet or emulsion often acts well. If the case is severe, regular washing out of the stomach by means of the stomach-tube becomes necessary, and in many cases an operation (gastro-enterostomy) is needed.

W. F. (92/53) and *F. C. P.* (92/25).—Curing Animal-skins.—Alum and salt are the chemicals needed in curing skins; these are rubbed into the moist skin, or a strong solution is applied to the flesh side of the skin daily for a week, followed by the application of the dry powders. A liquid preparation sometimes employed consists of a solution of mercuric perchloride in spirit, but this is more adapted for bird-skins that are subsequently to be stuffed.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," April 15, 1869

Medicine Stamp Duties.

A member, speaking at an evening meeting of the Pharmaceutical Society of Great Britain on the question of patent medicines, stated his intention of proposing at the next meeting the total abolition of patent medicines, and expressed his anxiety that all who were able to give information or wished to advance opinions on the subject should attend. The Chairman said that the matter was under consideration in several Government quarters, and it was even proposed to double the stamp duties. Mr. Mackay remarked on the incongruous condition of the patent-medicine duties, and moved the universal equalisation of such duties, promising the cordial support of those interested in the matter in Edinburgh. The Chairman said that in a communication to Somerset House he had proposed the equalisation of the licence duties by levying a general one of 10*s.* Mr. Haselden also expressed his anxiety to see the licence and stamp duties increased, and drew a vivid picture of the deplorable result of low duties.

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EMETINE

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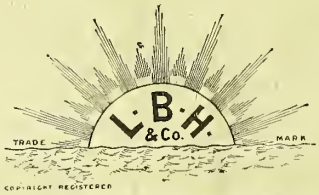

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*Ext Ergot. Liq P.B., 5 lbs. @ 12/9 lb. ; 1 lb. @ 13/– lb. ; Solid, P.B., 4 lbs. @ 56/– lb. ; 1 lb. @ 57/– lb.
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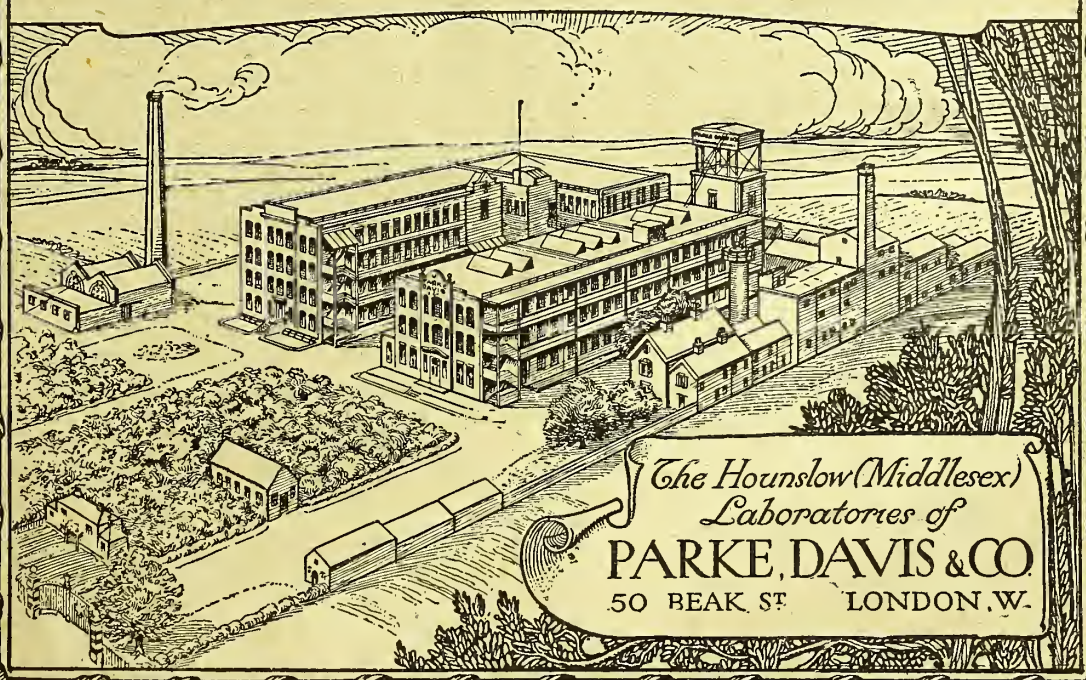

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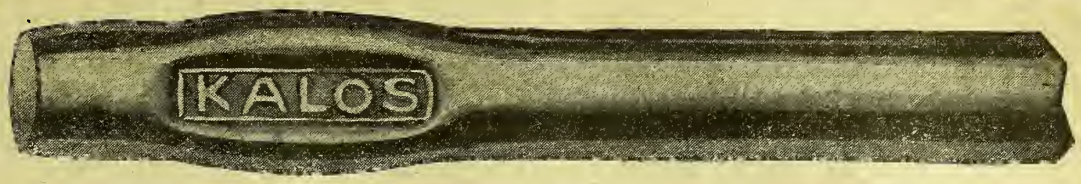

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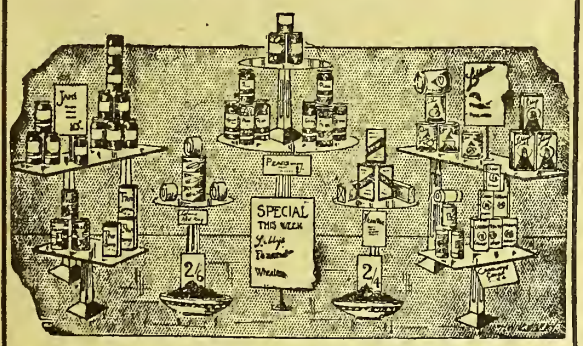

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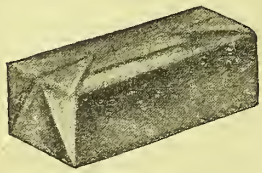

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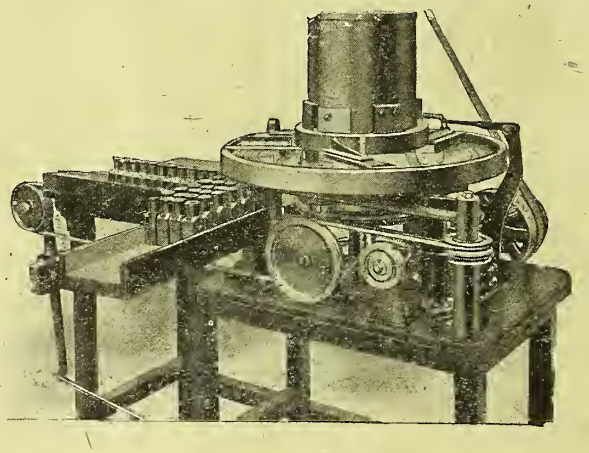

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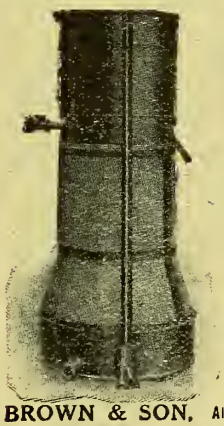

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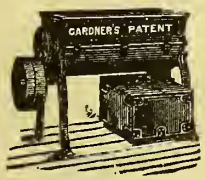

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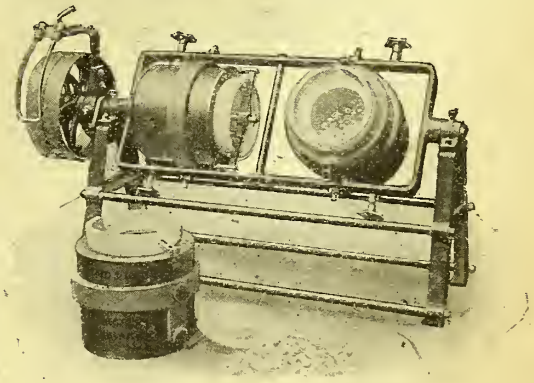

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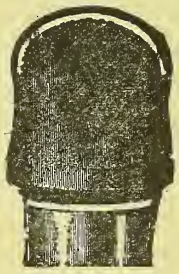

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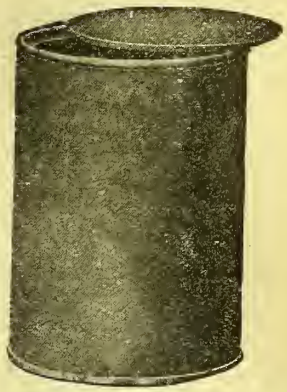

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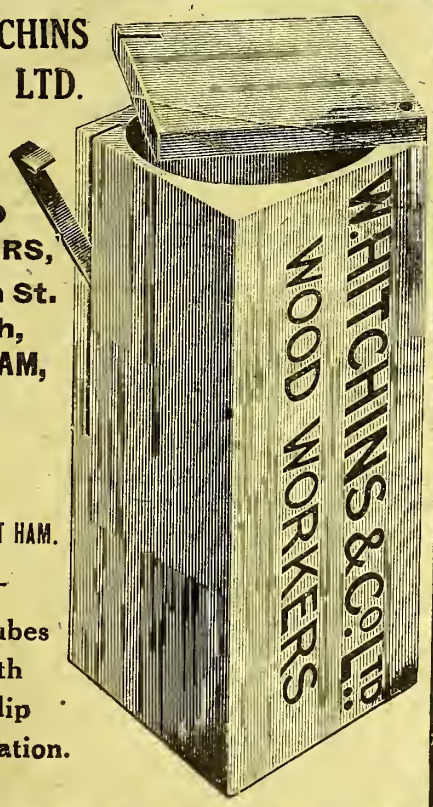

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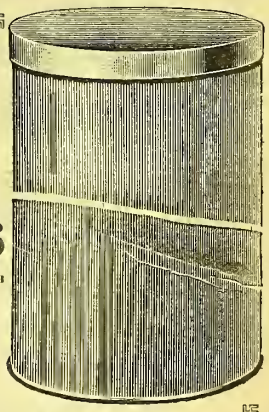

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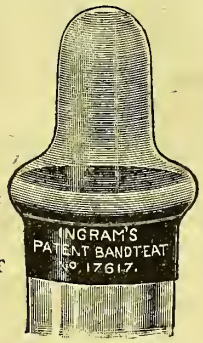

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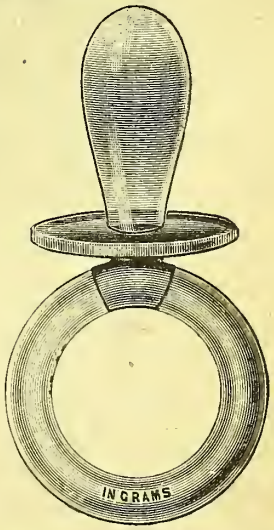

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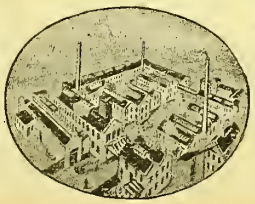
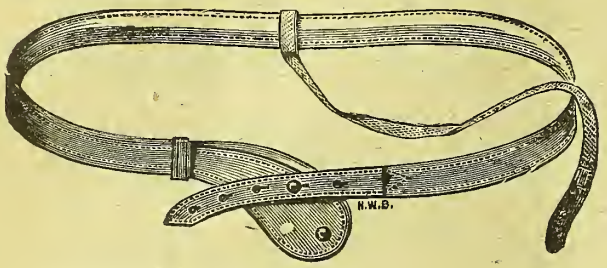


TRUSSES



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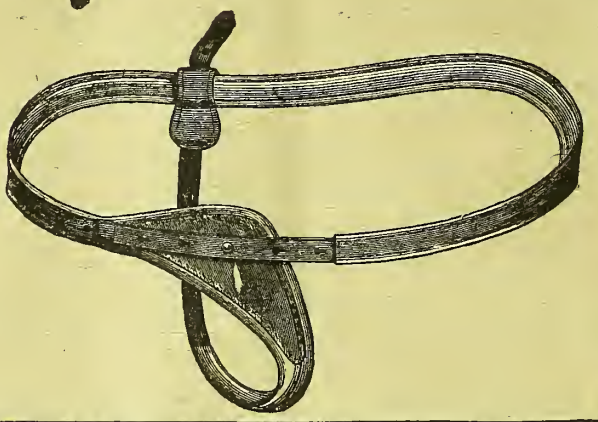

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Immediate attention to Urgent Orders.

BEST SPRINGS. BEST MAKE.
LOWEST PRICES.

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Surgical and Athletic Appliance Manufacturers,
Castle Gate, NOTTINGHAM.

Established 1833.

SPECIALITIES FOR SUMMER.

ELASTIC HOSIERY WITH OR WITHOUT SEAMS, SUITABLE FOR SUMMER WEAR. TRUSSES, SUSPENDERS, LADIES' & GENTS' BELTS MADE FROM POROUS MATERIALS, ELASTIC & LEATHER WRISTLETS, ARM-PIECES & ELBOW SUPPORTS, FOR CRICKET, TENNIS, GOLF & BOATING GOODS FOR TOILET & SEASIDE TRADE, WASHING GLOVES, BATHING CAPS, WATER-WINGS.

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(Regd)

SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES

"I always advise the Norvic Crepe Bandage for reasons of hygiene and comfort."

Extremely Elastic, but contains no Rubber.

Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool, will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages. Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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MEDICAL TWINES
ALL SIZES AND COLOURS IN STOCK.
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Please allow us to Sample and Quote—
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Allcock's
PLASTERS
A REMEDY OF 70 YEARS' STANDING.
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"Sold all round the World."

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SANITARY TOWELS

FOR LADIES.

Prompt Supplies.

Quick Sales.

Good Profits.

Attractively and neatly packed for window display.

	No. 1	No. 2	No. 3	No. 4
Small Quantity	14/6	18/9	24/-	26/6 per gross pkts.
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PAPER A few reams Strong Brown Tissue, 18×28 @ 12/6. 5 reams carr. paid. Brown from 45/- per ream. Swedish Kraft 80/- cwt. Pure Greaseproof, 20 × 30, 24 lbs. @ 40/- per ream.

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COTTON WOOL, 1/5 per lb.

In 1-cwt. lots. 56 lbs. at 1/6; 28 lbs. at 1/6½
Carriage paid, cash with order. Wrappers 3/6 extra, returnable.
A splendid wool, perfectly white and absorbent.
In 1 lb. rolls interleaved. Sample for p.c.
A client writes: "Thoroughly pleased with last lot."
JAS. Q. MILLS, Chemist, Platt Bridge, WIGAN.

WHOLESALE ONLY. MANUFACTURERS OF Established 1901

Surgical Dressings,
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Samples and prices on application.
VERNON & CO., Ltd., Penwortham Mills **PRESTON.**
Also 9 Fore Street Avenue, LONDON, E.C.
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Kay's Compound Essence of Linseed,
"LINSEED COMPOUND"
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For COUGHS and COLDS.
On the P.A.T.A. List.

"KAY'S TIC PILLS."
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"COAGULINE" & "TENASITINE" CEMENTS.

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Banding Material for Fruit Trees.

BIRDLIMES, RATLIMES, and FLYGUMS.

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Are valuable assets to your advertisements when they illustrate the special feature you are advertising.
Use blocks similiar to the one shown above and you will get more clients in your Testing Rooms.
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PLATE & SHEET **GLASS** OF EVERY Description.
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The Right Weapon for the RAT WAR

Mr. E. TOMS, Resolven, writes:—
"'Rodine' is far superior to any rat poison I have ever had. It soon does the trick and sweeps the rats clean away, leaving no trace of them."
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It yields nearly 100% Profit on P.A.T.A
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Send for the "Special Offer" Parcel with Showcards, and give it a **WINDOW DISPLAY.** We guarantee you good results, being the only genuine Dandruff Remover on the market. It repeats and recommends itself.

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3 dozen Lysoline Hair Tonic at 12/- per dozen,
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for which I enclose cash **36/-** herewith, and undertake to make Counter and Window Display in return for above terms.

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Did we hear you say? WE AGREE.

Well! They're there now, locked, barred and bolted, and we want your co-operation.

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NEW ADDRESS: **295 High Road, Brondesbury - LONDON, N.W. 6.**

Retailers when ordering from their Wholesale Houses should insist on

GROVE
Liquid Glues

We have a special Liquid Glue for labelling tin or glass containers, and for mending glass, china, &c.

Send for Samples to show the adhesive : : properties of these products : :

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Telegrams & Cables: "Crown, Appley Bridge." Telephone: Parbold 12.

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"CITO"

CLEANS IMMEDIATELY, with little exertion, Baths, Paint work of all descriptions, Brass, Silver, Tiles, Marble, Mortars and Pestles.

Samples Free.

CASSON'S COLD CREAM

DELICATELY PERFUMED.
In Bulk, Pots or Tins.

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Exactly as supplied to Coach and Carriage Painters. The best preparation for Cycles, Fire Ranges, Mail Carts, Gas Stoves, and all wood and ironwork. Free from methylated spirits.

BRILLIANT AND DURABLE.

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Retail at	**9d.**	**1/6**	**2/9**
Wholesale	**6/6**	**12/6**	**24/-** per doz.

SPECIAL OFFER.—One box containing 4 dozen 9d. size, and 2 dozen 1/6 size, sent, carriage paid, box free, for **48/-**

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MANUFACTURERS OF
STIFF AND READY-MIXED PAINTS, VARNISHES, WATER PAINTS, DISTEMPERS, STAINS, POLISHES, DYES, HOUSEHOLD & DOMESTIC PREPARATIONS.

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We offer

WAXES

PETRO. JELLY

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WHITE OILS

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DEPENDS LARGELY ON THE GOOD PHYSICAL CONDITION OF OPERATIVES OF BOTH SEXES, WHO OF NECESSITY SPEND MOST OF THEIR ACTIVE HOURS IN THE SHOP, FACTORY OR MILL. CONSEQUENT MONOTONY MAY BE DISPELLED, AND HEALTH IMPROVED, BY THE PSYCHIC AND CONCRETE INFLUENCES OF

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ON EDUCATIONAL AND RECREATIVE LINES, EXISTING ROOMS EQUIPPED WITH DESIRABLE APPLIANCES.

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We guarantee a perfect edge on ANY blade, ANY make.
Trade terms: **6d. PER DOZEN net.**
Blades returned same day as received.
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THE MALVA MANUFACTURING Co.

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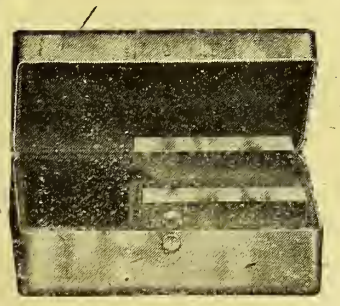

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THE MOST ECONOMICAL INFANTS' FOOD.

TRADE MARK "FRAME FOOD"

ON P.A.T.A. LIST. SHOWCARDS FREE.

FRAME FOOD CO., Standen Road, Southfields, London.

LIQ. SANTAL FLAV. c. BUCHU et CUBEBA

(Hewlett's)

Packed for dispensing only, in 10, 22, 40 & 90 oz. bottles.

"Experience has shown this preparation to possess the same efficacy as Santal Oil itself. It mixes clear with water, and has a taste by no means disagreeable."

The Practitioner.

VIROPHOS

Of proved utility in Nervous Diseases, and a powerful Restorative for the Digestive Organs and Nervous System.

A Valuable Tonic Food for Children.

"It is of high nutritive value enhanced by the presence of assimilable phosphates."—*The Lancet.*

Wholesale Prices.

No. 1.	1½ oz. Tin ..	9/-	per doz.
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" 3.	6½ " " ...	24/-	"
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MIST. PEPSINÆ CO. c. BISMUTHO

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Packed for dispensing only, in 10, 22, 40 and 90 oz. bottles.

"Obviously likely to be of much advantage in the frequent cases of irritative dyspepsia, with atony of gastric or intestinal muscular layers."

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WINOX Wine Food

is a high-class Pharmaceutical Wine, containing all the food elements of Meat, Malt and Unfermented Grape Juice.

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Winox will stand any climate, and contains no harmful drugs.

Price 5/6 per bottle retail. Chemists who do not already stock Winox should apply for price to Winox Ltd., Richmond, Surrey.

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Doctors prescribe Turtle Soup in all cases where the patient cannot retain any other nutriment.

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REAL TURTLE EXTRACT

is the real meat of selected West Indian Turtles, compressed into handy tablets; it provides all the delicacy and nourishment of soup made from fresh killed turtles, and is quickly prepared as it requires nothing but boiling water.

For hospitals, nursing and convalescent homes it can be strongly recommended as the best, safest and handiest invigorator obtainable.

The trade terms are particularly favourable, and particulars can be obtained by writing to

The Watford Mfg. Co. Ltd.
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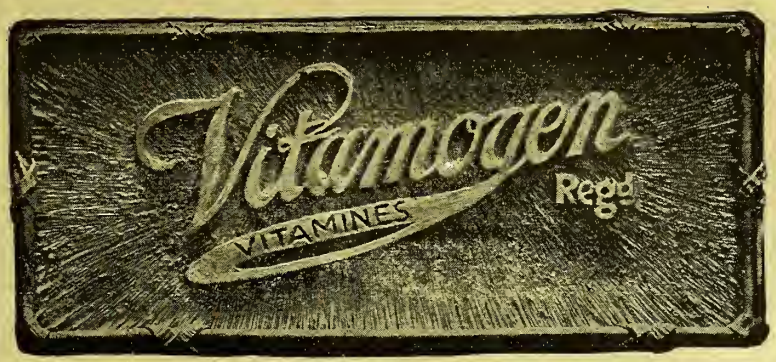
Freemans FOOD PRODUCTS Watford S.A.A.



VITAMOGEN contains the essential *Vitamines* in an active and concentrated form. VITAMOGEN is in itself a food of the highest potency, rationally concentrated according to approved scientific methods. It is rich in organic, i.e. assimilable Phosphorus, and the proportion of nutritive constituents is well balanced to meet the physiological needs of the organism.
VITAMOGEN stands alone as a means of supplying the Vitamines — an entirely new food element.
VITAMOGEN is packed in two sizes, 2/- and 4/6, obtainable from all the principal wholesale houses.
VITAMOGEN owes its origin to our Chairman, who, 20 years ago, invented Virol, the well-known Invalids' Food.

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Vitamogen LTD.

FIGHT THE DEADLY INFLUENZA

If you would safeguard yourself against the attack of the death-dealing epidemic which has accounted for no fewer than **100,000 DEATHS in 8 WEEKS** in this country alone, look to your health. Keep physically fit, avoid colds, chills, and give tone to your nervous system.

FORT-REVIVER

taken three times a day will strengthen, fortify and tone the whole system, and ensure that vim and vigour to enable you to ward off attack and render you immune from infectious diseases. All leading Doctors and Practitioners advocate **FORT-REVIVER** as a preventive against Influenza and Infectious Diseases. Obtainable everywhere. **5/6** Large Size Bottle; **3/9** Smaller Size Bottle.

HAYES, CONYNGHAM & ROBINSON, Ltd., The Chemists.

The above firm are holding a gigantic sale of **FORT-REVIVER** at all their fourteen branches:
DUBLIN—4 Grafton Street; 51 Henry Street; 32 Upper Baggot Street; 54 Lower Clanbrassil Street. **RATHMINES**—9 Duggan Place. **RATHGAR**—49 Highfield Road. **INCHICORE**—189 Emmet Road. **CLONTARF**—Fairview Corner. **PEMBROKE**—Elgin House, Ballsbridge, **BLACKROCK**—8 Main Street, Kingstown; 112 Upper Georges Street; 66a Upper Georges Street; 71 Lower Georges St.
Irish Representative: Mr. Hugh P. Doyle, 29 Molesworth Street, Dublin.

VIKING CHEESE RENNET

WHOLESALE.	RETAIL.
24/- per gallon tin	29/- per gallon tin
12/6 ,, ½ ,,	15/- ,, ½ ,, ,,
6/3 per quart jar	7/6 per quart jar
3/- ,, pint ,,	3/9 ,, pint ,,
1/7 ,, ½ ,,	2/- ,, ½ ,, ,,

VIKING ANNATTO

WHOLESALE.	RETAIL.
12/6 per gallon jar	15/6 per gallon jar
6/6 ,, ½ ,,	8/- ,, ½ ,, ,,
3/6 ,, quart ,,	4/3 per quart jar
2/2 ,, pint ,,	2/6 ,, pint jar

These prices include containers and carriage paid.

VIKING RENNET and ANNATTO must not be resold to Cheesemakers at more or less than the retail prices stated above.
VIKING ESSENCE of RENNET JUNKET TABLETS, and JUNKET POWDER. *Prices on Application.*

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NALBOROUGH & SONS, Ltd.

HARWICH, Essex.
ESTABLISHED 1829.

SUGAR OF MILK. CREAM OF TARTAR.
DRIED WHOLE EGG. DRIED HEN YOLK.
ALBUMEN.
MILK POWDER. HONEY.

GESTIVO FOOD FOR INFANTS AND INVALIDS

On P.A.T.A.,
At following full retail prices, which show a good profit

TINS, in two sizes, 1s., and 1/9,
Which cost 8/6 doz. and 12s. doz.

MAURICE SMITH & Co., Ltd.
Manufacturing Chemists and Food Specialists,
KIDDERMINSTER.

KREMOFOS
$CaH_4(PO_4)_2$
A British Product equal to Cream Tartar 98 p.c.
Entire output up to end of April is sold, inquiries invited for May.

SANATOGEN

Nargentol
Contains 24% Silver, with Protein obtained from Wheat. The most important and satisfactory of all Silver Salts.
AS USED BY THE WAR DEPT.

NARGENTOL

SILVER PROTEINATE
(Protargol)
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British Make

LECITHIN

SANATOGEN

SANATOGEN

LYSOL

STYPTIC PENCILS
Stop flow of blood at once
Retailed at 6d. & 1/- each
2/6 doz.
From all Sundry Houses.

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ESTABLISHED 1870.

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LECITHIN
EX OVO.
Spot Delivery.

LANOLINE

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SANATOGEN

KREMOFOS

BETA-NAPHTHOL BROMIDES
PHENACETIN
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PROTARGOL

LORIMER'S SANATOGEN
Pure and Genuine.
Prices are
3/3 size, 20/- doz.
6/- ,, 36/- ,,

FORMAMINT

FORMAMINT
Identical in composition and antiseptic value with German Formamint.
15/- doz

FAWCETT'S Natural Process BARLEY

Purely Barley, and purely British, not a patent or chemically-treated food. Recommended for delicate digestions at all ages. Sells on sight.

UNRESTRICTED DISTRIBUTION.

FAWCETT'S, Barley Food Specialists.
CASTLEFORD, Yorks.

TO THE TRADE

You can now obtain 'Prana' Sparklet Bulbs (Type 'C')

for use with 'C' or 'D' Syphons

Price 33/- per doz. boxes to retail @ 3/6 each.

Empty 'D' bulbs should be returned for refilling. 'B' bulbs will be on sale again at an early date.

AERATORS Ltd., EDMONTON,
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By Royal Warrant of Appointment to H.M. The King.

By Royal Warrant of Appointment to H.M. The King.

Only ONE Address.

DAY & SONS, CREWE. LTD. (CREWE)

ESTABLISHED 1840.

HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only ONE Address.

LARGEST SALE IN THE WORLD.

DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Condition in all Stock.

Price 1/8 per bottle

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Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

6/6 per bottle

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For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 7/6, 20/-, and 40/-

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OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving, Prevents Milk Fever, and cures Bad Cleansing.

12/- per doz. packets.
The Ewe Drench for Ewes, 3/6 per doz.

DAY'S OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle, and Sheep, Sore Teats and Swollen Udders in Cows and Ewes. For Anointing in difficult Lambing or Calving.

2/6 and 6/- per bottle.

DAY'S WHITE OILS.

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

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DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £1 4s., £2 4s., £5, and £10 10s. ; Carriage Paid.

Arranged for Horses, Cattle and Sheep; Horses only; or to suit any class of stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest Illustrated is similar to that at £5 and £2 4s.

Great Specialities.

ONLY GENUINE FROM

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Vanillin **Acetanilid**

Phenacetin **Coumarin**

Glycerophosphates of Calcium, Potassium 75%, Sodium (pure crystals and powdered), Sodium (Solution 75%), Iron, Manganese, Magnesium, &c.

Sole Joint Agents MONSANTO British Empire and Europe

F. W. BERK & CO., Ltd. and **GILL & DUFFUS,**

1 Fenchurch Avenue, E.C. 3 — 20 & 21 St. Dunstan's Hill, E.C. 3.

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THE CHEMIST & DRUGGIST SUPPLEMENT.

OFFICE: 42 CANNON STREET, E.C. SATURDAY, APRIL 12, 1919.

TO ADVERTISERS IN THIS SUPPLEMENT.

The Publisher desires to make it clear that advertisements of Businesses for Disposal and Wanted, Situations Open and Wanted, Exchange Column, &c., MUST BE PREPAID (except in the case of serial advertisers), and to ensure prompt insertion

REMITTANCES MUST ACCOMPANY INSTRUCTIONS.

Advertisements for the current issue cannot be received after first post on Thursday in each week. If it is necessary to telephone or telegraph an urgent announcement this may be done

PROVIDED the MONEY is TELEGRAPHED

at the same time and the fact made clear that the money order is to be delivered at 42 CANNON STREET, LONDON, E.C.4. Advertisers will assist greatly in the preparation and quick despatch of the Supplement by making careful note of these rules. Telephone: No. 3617 Central (3 lines). Telegraphic Address: "Chemicus, Cannon, London." (Three words counted as two.)

EASTER HOLIDAYS

NEXT week THE CHEMIST AND DRUGGIST SUPPLEMENT will be put to Press a day earlier than usual. Therefore any advertisements intended for the SUPPLEMENT of April 19 should reach this Office not later than

N.B.—The Offices will be closed from Thursday evening, April 17, to Tuesday morning, April 22.

10 a.m. on Wednesday, April 16.

ADVERTISEMENTS RECEIVED LATER will be INSERTED in the ISSUE of APRIL 26.

CHEMISTS' TRANSFERS.

Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.

Telephone Number: City 2283

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

1.—LONDON, W.—Good-class Dispensing and Retail Business, situate in main thoroughfare; corner position; returns £50 per week at good prices; large residence; private entrance; long lease; price about £1,000.

2.—SOUTH KENSINGTON.—Good-class Dispensing and Retail Business; returns, present rate, between £1,500 and £2,000 at good prices; well-fitted shop, fully stocked; price £600.

3.—HYDE PARK.—For immediate Disposal, high-class Dispensing and Retail Business; returns upwards of £1,200; *gross profit between* £650 *and* £700; the business is known to us and we can recommend it; valuation terms.

4.—LONDON, N. (Good-class Residential Suburb).—Retail and Dispensing Business; established many years; returns, present rate, over £2,000; no immediate opposition; well-appointed Pharmacy; rent £60; held on lease; price £850.

5.—LONDON, S.W. (Main Road).—First-class Dispensing and Retail Business; gross receipts exceed £4,000; well-appointed shop, fully stocked; excellent opening for two men with knowledge of high-class trading.

6.—LONDON, N.W. (Residential Suburb).—Well-established Business; held by vendor upwards of 25 years; returns, present rate, over £30 per week at fair prices; well-appointed shop, fitted in mahogany; there is a comfortable residence; held on lease; no near opposition; price £850.

7.—LONDON, N.W. (Main Road).—Good-class Business; Retail and Dispensing; *net profit* £600; well-appointed shop, nicely fitted and fully stocked; valuation terms would be considered, or lump sum offer.

8.—SEAPORT TOWN.—Wholesale Business, comprising Surgical Instruments and Druggists' Sundries; gross receipts last year exceeded £11,000, and the average *net profit* for the past three years, after allowing for depreciation and bad debts, £1,042; further particulars will be furnished on receipt of a banker's reference.

9.—LINCS (Busy Market Town).—Mixed Business with good Optical connection; returns last year £8,400; *average net profit for three years,* £1,147 *yearly;* commodious premises; vendor's own property; terms, valuation of stock and fixtures, plus premium for goodwill.

10.—WESTERN COUNTY (Health Resort).—Good-class Business for Disposal through death; returns between £1,200 and £1,300, with scope for extension; well-fitted shop and large residence; rent £55; for an immediate sale less than the value of stock and fixtures will be accepted.

11.—WESTERN COUNTY.—For immediate Disposal, good-class Family Retail and Dispensing Business, with Photographic Branch; the concern has been established upwards of 60 years, and held by vendor 43, now retiring; returns last year £1,764; *gross profit* £541; roomy house; price about £1,000, or valuation terms would be considered.

12.—MIDLANDS (Large Manufacturing Town).—Old-established Business; Retail and Wholesale in packed goods; gross receipts exceed £8,000, and during the past three years the *average gross profit amounted* to £2,031; the premises are held on long lease at a rental of £60; price about £3,000; a banker's reference will facilitate business.

13.—STAFFS.—Ready-money Retail, with N.H.I. Dispensing; established many years; returns last year £2,456; full investigation invited; rent £30; offer wanted.

14.—KENT (Suburban).—Old-established Business, situate in shopping thoroughfare, and in close proximity to railway station; returns last year over £3,000; *gross profit between* £1,200 *and* £1,300; double-fronted shop; corner position; comfortable residence; terms to be arranged.

VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a Periodical Statement of Account, by which means alone **Profit, the value of Business, &c.,** can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted, and eventually becomes the cause of **confusion and loss.**

Messrs. O. & Co. are prepared to undertake these essential duties, and will make **Special Terms** for such services.

ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C.

BERDOE & FISH

VALUERS & TRANSFER AGENTS

35 Jewry Street, Fenchurch Street, E.C.3.

Telephone: 1809 Central.

NO CHARGE TO PURCHASERS.

1.—ESSEX COAST.—Select Retail Dispensing and Photographic Business in best position; returns last year £1,370; *net profit* £422; pre-war returns £1,800; good house and Pharmacy; price £100 and valuation; in all about £850; personally recommended.

2.—SURREY (Suburb).—Good-class Retail and Dispensing Business in good position; returns £1,800; *net profit nearly* £450; books well kept; very convenient house; price about £900.

3.—NOTTS.—Old-established Cash Retail; present returns £50 weekly; splendid opening for Dentistry; handsomely fitted lock-up shop; good stock; low rent; same hands many years; price simply valuation, £500 to £600.

4.—WESTERN COUNTY (Inland Health Resort).—First-class Dispensing and Light Retail for Sale through death; returns about £1,250; has done much more and can again; good residence; low rent; handsome Pharmacy, heavily stocked; price £1,100 or offer.

5.—KENT.—Genuine Herbal and Drug Stores for immediate Disposal in large fashionable town; returns £12 to £14 a week; *net profit £5 to £6 weekly*; low rent; long lease; small house; price £250; suit unqualified.

6.—LONDON, S.E.—Sound Cash Retail and Prescribing, with N.H.I., in working-class district; returns under Manager £2,000; *net profit* £600; eight-roomed house; low rent; well stocked; price for quick sale £600 cash.

7.—LONDON (Western Suburb).—Light Retail Dispensing and Photographic Business; returns over £1,350; *net profit, about* £500; large handsomely fitted shop, fully stocked; price £800, or £100 and valuation; trial can be had.

8.—LONDON, N.—Light Family Retail and Dispensing, with good Optical connection; returns £1,400, increasing; *net profit about* £400; well fitted and stocked; small house; price £750, or near offer; recommended.

9.—LONDON (Essex Suburb).—Profitable Light middle-class Cash Retail; practically unopposed; returns over £1,000; *net profit* £436; books properly kept; well fitted and fully stocked; price £500.

BUSINESSES WANTED.

We are in immediate want of sound concerns, returning up to £3,000, in town or country, especially South Coast, Midlands, and North; cash buyers waiting. Intending vendors are cordially invited to correspond. Terms sent on application. Established 1870.

FOR SALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

For Sale.—Quantity first-class Chemical Apparatus and Thermometers; 3 lb. Pure Potassium Permanganate, 4s. per lb.; quantity (several gross) Tooth-powder Tins, Violet-powder Tins (new); 5 cwt. Fuller's Earth; 5,500 ½-lb. Folding Cartons; 1 cwt. Epsom Salts; 12 cwt. Hexagon Candle Naphthalene; 6 cwt. White Crystal Naphthalene; 3 cwt. Pure Flake Naphthalene; 2 lb. Pure Bacteriological Peptone; 20 gross new assorted Corks; bargains; must sell; send for list and prices. Apply 98/39, Office of this Paper.

For Sale.—100 Chemists' Powder and Tincture Bottles, from 6 to 20 oz.; also two Carboys; accept offer. Apply 96/37, Office of this Paper.

Pennyroyal (Mentha Pulegium); Crop and Roots to be Disposed of; most remunerative to a firm able to "dry" or "distil" on the "spot"; the stock Roots growing in Lincolnshire are for Disposal; inquiries invited. James Young, Atropa, 14 Perryn Road, Acton, W. 3.

Sole manufacturing, advertising, and selling rights of medical specialities as Patent Medicine; name not registered but held by advertiser this last five years; has made a wonderful record of genuine testimonials; a sure fortune if advertised; want of capital cause of selling; name can be registered and premises taken for factory if desired. Offers invited or inquiries to "Manufacturer" (93/2), Office of this Paper.

BRETT & CO.

Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

£5,745 RETURNS, INCREASING. NORTH MIDLANDS.—Good general middle-class Retail; proved net profit £2,219; good introduction given; price, valuation of stock and fixtures, about £2,500, and goodwill to be mutually arranged.

£940 RETURNS. LINCOLNSHIRE.—Light Cash Family Retail; can be much increased; vendor over 70; price, valuation of stock and fixtures, about £400.

£3,500 RETURNS. WEST.—Good-class Retail; fair Dispensing, and sale of own Proprietaries; net profit £620; price £3,000.

WE HAVE BUYERS FOR ALL CLASSES AND SIZES OF GENUINE BUSINESSES.

TENDERS.

G. R.

BY DIRECTION OF THE DISPOSAL BOARD.
NAIL BRUSHES FOR SALE.

7,000 New Nail Brushes, at present stored at the White City, Shepherd's Bush, for Sale.

A sample Brush may be seen on application at the Canteen Section, Room 16, Factories Consumable Stores, Disposal Branch, 37-41 Old Queen Street, Westminster, S.W. 1. Tenders for same are invited, and should be sent to the above-named address.

BUSINESSES WANTED.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

Advertiser seeks a Mixed Drug Store where qualification is not particularly essential, with convenient house and lease attached; South Coast or London W. or S.W. suburbs preferred; partnership would be entertained; cash ready; fullest particulars in first instance would facilitate writing. "Roberts" (93/3), Office of this Paper.

Drug Stores (or a neglected Business without N.H.I.), where there is scope for improvement; London or Suburbs; house accommodation. Full particulars, including price asked, to "G. C.," 52 York Road, Battersea, S.W. 11.

G.E. Railway, Main Line from London to Norwich.—Wanted, Business, situated on above Line, or good connection with same, with scope for increase. Give particulars of takings, expenses, and approximate price to "N.C.O." (82/6), Office of this Paper.

Sound Business wanted; Midlands or North-West preferred; good Counter trade, with Dispensing, N.H.I. or private; showing net profit of £300-£400, with scope for increase; living accommodation essential; state returns for 1912, 1913, 1918, position, opposition, type of neighbourhood and trade; ready cash deal. "Mensa" (99/11), Office of this Paper.

Sound Business required on Coast; good turnover and living accommodation essential; cash ready. Full particulars, in confidence, to 102/19, Office of this Paper.

Wanted, small Drug Stores; neglected and lock-up not objected to providing there is scope for increase; London essential. Please state full particulars in first letter in confidence to "F.," 45 Portland Street, Walworth, S.E. 17.

PARTNERSHIPS.

An elderly lady Pharmacist, qualified, with small capital, seeks a young lady Partner with view to purchasing a business in suburbs or country. Perrin, 61 Davies Street, Oxford Street, W.

Partnership.—Opening in an old-established business; modern premises; good turnover and room for expansion for a young and energetic Pharmacist, who should be well educated and trained. Apply in the first instance 95/4, Office of this Paper.

BUSINESSES FOR DISPOSAL.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

BIRMINGHAM.—Old-established Mixed Family Retail and Dispensing with well-known own Proprietaries; suit qualified Drug Store Manager anxious to commence business on own account; main thoroughfare; Pharmacist who owns premises retiring; lease granted; no near opposition; takings £20 weekly; no N.H.I.; about £350. "Chemicus" (96/36), Office of this Paper.

EAST LANCASHIRE.—For immediate Disposal for health reasons, sound Drug and Photographic Stores; main street; rent £19 10s.; business increasing; good profits; returns for the three months of this year over £190; price £325. For fuller particulars apply 98/26, Office of this Paper.

LANCASHIRE (Urban District).—Chemist's Business for Disposal through death; established 1874; Insurance Dispensing for area. Apply 102/17, Office of this Paper.

LONDON, E. 5.—Shop, d.f. Chemist's; completely and well fitted; established over 20 years; chance to pick up good business cheap; rent £55. Owner, 160 Stoke Newington Road, N.

A THOROUGHLY good Prescribing and General Retail Business for Disposal (through death of proprietor) in North Wales; agricultural district; good Optical connection which is continually increasing; large beautifully fitted shop, well stocked; storeroom and warehouses; also large modern private house attached; open to every investigation. "Cymro" (102/26), Office of this Paper.

CHEMIST, with two Businesses, wishes to dispose of one; would entertain short-time partnership; returns £1,900. Apply 100/6, Office of this Paper.

CHEMIST'S Business for Disposal; York; main thoroughfare; old-established (50 years) Cash business; returns well over £1,000 per year; rent £24; good stock; premises on lease; transferable; good living house attached. Apply 102/20, Office of this Paper.

EXECUTOR'S Sale.—Dispensing and Family trade; large scope for increase; London, W.; returns over £850; over 60 per cent. gross profits; rent £90, £39 let off, leaving good house accommodation; established 70 years, only three proprietors. Apply 86/350, Office of this Paper.

FOR immediate Disposal, an old-established and well-doing Chemist's Business in a busy seaport town. Apply "H. O." (99/17), Office of this Paper.

FOR Sale, Business of a well-known registered Patent Medicine, which has forged ahead for over 60 years on its intrinsic merits; patronised by Royalty, and possessing Royal testimonials; 90 per cent. of the customers recommend it; fortune to be made if well advertised; ill-health sole cause of selling; no plant or machinery; distribution entirely through London Wholesale houses and few well-known Retail firms; turnover £2,000 per annum; net profits £1,100, with small employment of female labour; every investigation; hundreds of unsolicited testimonials; what offers? or would entertain partnership. [Will the firms and individuals who replied to this advertisement please note the price, £8,000 or nearest offer? Latest order received from one of the leading Retail houses £132.] Apply 64/150, Office of this Paper.

OLD-ESTABLISHED good-class Pharmacy in suburb of West of England City; present profits about £450 on small turnover; very few patents sold; no N.H.I.; especially suitable for one or two ladies as at present conducted; turnover could be doubled by anyone obsessed by turnover rather than profit; owner is retiring and would accept £700 or near offer. Apply 98/38, Office of this Paper.

SOUND little country Chemist's Business for Sale; ingoing about £400. Apply Burrows & Richards, Ltd., 88 Bishopsgate, London.

TO CHEMISTS.—For immediate Disposal, well-established Business at Torquay, doing sound trade with ample scope for big advancement; price, which is low, will include the leasehold shop property with living accommodation over. Particulars of J. Tearle & Sons, Auctioneers, Valuers, etc., 7 Cary Parade, Torquay (opposite Pavilion). Telephone 349.

AGENCIES.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

Price-lists, trade circulars, samples, and printed matter can in no case be forwarded, the Box numbers being intended exclusively for specific answers to particular advertisements. The Publisher reserves the right to open and refuse to forward any communications received which he may consider contrary to this rule.

AUSTRALIAN Pharmacist, good qualifications, ex-officer, residing London some months, wishes to take back sound Agency for development in Victoria, New South Wales, Queensland, or to represent firm, young; well known; financial backing if warranted. State general outline of offer to 36 Paulton's Square, Chelsea. Appointment then arranged.

DUBLIN CITY firm, old-established connection amongst Wholesale trade, at present representing leading Manufacturers, highest references, open to undertake Agency for Ireland for first-class house. Apply 45/29, Office of this Paper.

PORTUGAL.—Well-established firm at Lisbon with very good connection among dealers in Chemicals and Drug products desires to represent first-class houses manufacturing Ink Powders, Chemical Colours, and Chemical Products generally, for all industries; successful results guaranteed; good references. Address 17/15, Office of this Paper.

AGENTS wanted in Birmingham, Manchester, and the chief provincial centres, for the "Kenney" leg; must be able to take measurements and fit. Write, The "Kenney" Limb Co., Ltd., 45 Bedford Row, London, W.C. 1.

AGENTS wanted calling on Chemists, Hairdressers, and Stores, to push first-class Toilet Preparation; good commission given. State in confidence goods already carried and ground covered to 98/37, Office of this Paper.

TO EXPORT MERCHANTS AND AGENTS.

DURING the war the proprietors of Glaxo have extended their manufacturing resources to such an extent that with the advent of Peace they will be in a position to cater for all Colonial and Foreign markets. Firms having their own organisations abroad, who would like to be associated with them in this world-wide extension of trade, would oblige by communicating in writing in the first instance with Export Manager, Glaxo, 155-7 Great Portland Street, London, W. 1.

EASTERN Traveller, many years' experience, commanding large European and native trade in India, Burma, Ceylon, Malay, China, Japan, and Australia, going on journey shortly, wants a sound good Agency; commission and part expenses. Reply first by letter to 88/8, Office of this Paper.

SOLE Agent wanted for London and district having connection with and calling upon Retail Chemists, to sell well-known Proprietary Toilet Preparation on commission basis. Apply 95/10, Office of this Paper.

TO MANUFACTURERS.—Advertiser, with long-established connection and central London office, is open to undertake sole London Agency for all classes of goods suitable for home and export trade; Wholesale Druggists' Sundriesmen, Surgical Appliance houses, and Shippers; business is opened and supervised personally by principal, thus assuring closest relations between manufacturers and their clients; bank and business references given. Apply 97/18, Office of this Paper.

TRAVELLER covering Ireland wanted to Represent good Chemist's line on commission; vest-pocket sample; ready seller; liberal terms. Apply 95/22, Office of this Paper.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

RETAIL.

ASCOT, Berks.—Wanted, for high-class Pharmacy, an unqualified Assistant with good Dispensing experience (lady or gentleman). Apply, with fully particulars, to "T. G. S.," 1 Church Road, Bracknell.

BECKENHAM.—Unqualified Assistant (lady or gentleman) for Dispensing and Counter; 1½ hours duty alternate Sunday evenings; state particulars as fully as possible in first letter. "P.," 91 High Street, Beckenham.

BIRMINGHAM.—Qualified Assistant required for a business in an industrial district; would suit elderly man well if active; comfortable permanency. Apply "A." (98/132), Office of this Paper.

BRADFORD and District Pharmacists' Association.—Qualified Locum required from about June 9th until end of August. Applications, with full particulars, to Hon. Sec., A. T. Bailes, Ellercroft Road, Bradford.

CANTERBURY.—Qualified Assistant, for good-class Retail and Dispensing business; permanency; outdoors. Apply, with all usual particulars, salary required, and photo, to E. Bing & Son, Pharmaceutical Chemists, Canterbury.

COLCHESTER.—Experienced Assistant required; Light Retail and Dispensing. Salary, references, etc., to J. F. Marlar, Chemist, Colchester.

EASTBOURNE.—Unqualified Assistant for good-class Retail and Dispensing business. Apply, stating usual particulars, Senior, Chemist, Eastbourne.

HULL.—Wanted, Assistant as Junior (outdoors) in good-class Retail and Dispensing business; short hours; two kept. Apply, stating age, height, salary required, and references, to Metcalfe & Son, Pharmacists, Hull.

HULL.—Qualified Assistant (outdoors); suit partly disabled ex-soldier or elderly man; easy hours; comfortable berth; very light duties; permanent position; progressive salary. Apply, with usual particulars, to 101/26, Office of this Paper.

LEEDS.—Required, qualified Assistant, lady or gentleman; state age, experience, and salary required. Bedford, Hyde Park, Leeds.

LEICESTER.—Wanted (immediately), good Assistant for Galenicals. Stock, etc.; good experience to be gained. Full particulars, salary expected (outdoors), to F. W. Goodess, Pharmacist, 25 Market Street, Leicester.

LIVERPOOL.—Young qualified Manager; capable of taking entire charge of Pharmacy; Light Retail, N.H.I. Dispensing; someone with initiative and energy would be given a progressive interest in the business as time went on. Replies, stating age, experience, salary required, to Harold Lomax, M.P.S. (Lomax, Ltd.), 43 Edge Lane, Liverpool.

LONDON.—Lady Minor required for N.H.I. and Counter; previous Retail experience not essential; non-resident; state salary required. Apply 96/28, Office of this Paper.

LONDON, E.—Elderly, qualified Assistant required for business situate in working-class neighbourhood; comfortable berth. Apply "B." (98/13), Office of this Paper.

LONDON, E.—Managing Assistant (outdoors) for Branch; no Sunday duty, no N.H.I. Dispensing; also part-time, to take sole charge during relief; state full particulars, age, and salary expected. "X. Y. Z." (99/5), Office of this Paper.

LONDON, N.—An unqualified Assistant or good Junior required (outdoors) for Light Retail, Dispensing, and Photographic business. Apply, with full particulars, to F. J. Sandberg, 22 Regent's Parade, North Finchley, N. 12.

LONDON, N.W.—Wanted, good unqualified Junior with Dispensing experience. Apply, stating salary required, etc., "X." (102/27), Office of this Paper.

LONDON, N.W.—Wanted, a qualified Assistant, capable and energetic, accustomed to high-class Retail and Dispensing business, who could be left in charge occasionally; an interest in the business could be eventually arranged. Apply, with full particulars and salary required, to 101/28, Office of this Paper.

LONDON, S.W.—Capable Assistant required (outdoors); references must be satisfactory. Apply A. Owen, 260 Upper Tooting Road, S.W. 17.

LONDON, S.W.—Qualified Manager required for good business situate amongst the artisan population; excellent opportunity for man anxious to get on; good house accommodation. "S. W." (98/133), Office of this Paper.

LONDON, S.W.—Good, unqualified Assistant wanted for modern good-class Store trade; smart at Counter and Window-dressing. "H.," 17 Landseer Road, Hove.

LONDON, W.—Junior Assistant; hours 8.30 a.m. to 7 p.m.; Dispensing and small Wholesale trade. Reply, stating salary required and usual particulars, to "M." (115/19), Office of this Paper.

LONDON, W.—Sharpe & Son require (shortly) a competent Assistant with good Dispensing experience; outdoors. Particulars of former engagements, age, salary, and when disengaged, to W. J. I. P., c/o Sharpe & Son, 34 High Street, Notting Hill Gate, W.

MANCHESTER.—Manager (qualified) required as soon as possible for branch; good-class cash Retail, very small N.H.I. Apply, giving full particulars as to age, experience, salary expected, etc., to W. F. Cuttiford, Pharmacist, 249 Bolton Road, Pendleton.

MANCHESTER.—Qualified and unqualified Assistant wanted for middle-class business; also part-time Assistant, male or female; progressive position offered; hours 9 to 8, no Sunday duty. Please give particulars of experience and salary required, John L. Smith, Regent Road, Salford.

MANCHESTER.—Wanted, two qualified Managers; permanent; one elderly; N.H.I. and Cash Retail. Apply 102/21, Office of this Paper.

MARGATE.—Gentlemanly Assistant (ontdoors); about 24; good-class Retail and Dispensing business. Full particulars previous experience, age, height, salary, when disengaged, W. M. Rosser, Baily & Co., 2 Ethelbert Terrace, Margate.

NEWCASTLE-ON-TYNE.—Qualified Assistant wanted for brisk Cash Business; must be capable of taking management occasionally; short hours (about 48 per week) and no Sunday duty; good salary to the right sort. Fullest particulars as to previous engagements, copies of testimonials, and salary required to 102/28, Office of this Paper.

S. KENSINGTON.—Qualified Junior wanted to assist in Branch and Main business. Reply, statiug experience, salary asked, and with photo if possible, to "Chemicus" (97/4), Office of this Paper.

ST. LEONARD'S-ON-SEA.—Wanted, Improver or Junior (outdoors) in high-class Pharmacy on sea front; Dispensing Counter work, and Photography. Apply, stating salary required and when can commence, to Thompson, 9 Grand Parade, St. Leonard's.

SHEFFIELD.—Qualified Assistant to Manage Branch. Full particulars, age, experience, salary required, etc., 118/56, Office of this Paper.

SOUTHEND-ON-SEA.—An experienced all-round Assistant for Counter and Window-dressing; permanency (outdoors); six others kept; good salary. Full particulars in first letter to Mr. Holloway, Pharmacist.

SOUTH WALES.—Qualified Branch Manager required (immediately) for pleasant mining district; must be thoroughly reliable and energetic; short hours, half-holiday weekly, no Sunday duty; good salary and commission, or interest in business given to suitable man. Apply "Cymro" (101/38), Office of this Paper.

STAFFORD.—Junior Assistant; male or female; quick and accurate worker; please give full particulars of experience and state salary required. J. & H. A. Averill, Stafford.

SUNDERLAND.—Wanted, a qualified Assistant; N.H.I. work. State age, references, and wages, J. G. Harrison, Pharmacist, 91 Hylton Road, Millfield, Sunderland.

SURREY (near London).—Unqualified Assistant required for high-class business, male; permanent and comfortable position; good Dispensing knowledge essential; state salary required. Apply "W." (98/131), Office of this Paper.

SURREY.—Junior Assistant required for a good-class Pharmacy. Kindly send full particulars and salary required (outdoors) to "Thymol" (103/1), Office of this Paper.

WEST END.—Wanted, for a leading business in the West End, a smart qualified Assistant to act as Counterman; good prospects; also a smart unqualified Assistant as Junior Counterman and Stockkeeper. Apply "X. Y. Z." (97/6), Office of this Paper.

YORK.—Wanted, competent Assistant for good-class business, and with knowledge of Photography; no Sunday or Bank Holiday duty, and no N.H.I. Give full particulars as to age, height, experience, references, qualified or unqualified, salary required (outdoors), and photo if possible, to Brown's Drug Co., Rexall Pharmacy, York.

A RELIABLE Assistant with Dispensing experience required early in May. All particulars, to save time, to Harding, The Avenue, West Ealing, W. 13.

ADVERTISER requires gentlemanly Pharmacist to fill position of Manager for a few months with a view to acquiring share in good, sound, old-established business in manufacturing district in Staffordshire; applicant must be under 35; preference will be given to one who has knowledge of sight testing. Replies, which will be received in strict confidence, must be made in first instance to 98/15, Office of this Paper.

ASSISTANT wanted about end of month for quick Retail and N.H.I. Dispensing; state full particulars, etc. Jones, c/o Lewis Wigg, 44 Church Lane, Old Charlton, S.E. 7.

ASSISTANT (gentleman or lady) for good-class Dispensing business (outdoors); accustomed to Dispensing; accurate and quick. Give usual particulars of age, experience, and salary desired to E. L. Slade, Chymist, Kew Gardens.

AT Once.—Competent Junior Assistant, accustomed to busy Cash trade, with knowledge of Photography and able to dress Counters and Windows; please state salary required and experience. Call or write, C. Woollons, 28 Kilburn Lane, W. 10.

CAPABLE, qualified Assistant as Manager for small business. Give full particulars, with salary, to McCarthy, Ewood, Blackburn.

CHEMIST-OPTICIAN for busy Branch (staff of five). Please give full particulars to Waller & Riley, Ltd., Chemists, Bradshawgate, Bolton.

CLERK wanted; accustomed to Chemists' books and card index; either full or part time; must write well. Full particulars to W. G. Jameson, 48 Baker Street, W. 1.

COMPETENT Junior for good-class Dispensing and Photographic business; comfortable berth for right man. Full particulars, including salary required (outdoors) and photograph if possible, to Makepeace, Pharmacist, Sanderstead, near Croydon.

COMPETENT Lady Dispenser required by a Doctor a few miles from London; state experience and salary required. Box 100/29.

COMPETENT managing lady Assistant; quick and well up in Dispensing, etc.; used to brisk Counter trade; able to take sole charge; busy village Retail; very good class; references must be very good. Particulars and photo to Mr. Coombes, Chemist, Great Missenden.

GENTLEMANLY Assistant (outdoors); good-class Retail and Dispensing business. Full particulars, previous experience, age, height, references, salary, when disengaged, Oliver, Chemist, Maidstone.

HEWETT & SONS (Brighton) require (at once) outdoor Assistant; male or female. Please state all particulars, experience, age, references, and salary required (photo if possible), Hewett & Sons, Kemp Town, Brighton.

IMMEDIATELY.—A qualified Dispenser (lady or gentleman), outdoors, to assist in management of business until sold. Balcomb, 10 Suffolk Parade, Cheltenham.

JUNIOR or Improver wanted (outdoors) for good-class Light Retail and Dispensing; easy hours. Dring, Chemist, Teignmouth.

JUNIOR Assistant required in a brisk, good-class business; one with some knowledge of Photography preferred. Please give full particulars, references, and enclose photo, to T. L. Nicholls, Pharmacist, Chelmsford.

JUNIOR Assistant required, qualified preferred (indoors), for good-class Retail and Dispensing business. Please state age and salary required, also particulars of experience, and send photograph, to J. W. Stainer, Pharmaceutical Chemist, Sandgate Road, Folkestone.

JUNIOR; active and capable; Dispensing, Light Retail; one day off weekly. Baker, Chemist, 161 New Cross Road, S.E.

LADY required for Bookkeeping and general clerical work. R. W. Walden, 65 Elizabeth Street, Eaton Square, S.W. 1.

LADY Dispenser (qualified) and Bookkeeper required. Apply, stating salary and usual particulars, Drs. Stamford and Richardson, Loughborough, Leicestershire.

LADY, qualified Chemist, for branch shop; Dispensing and light Counter work; easy hours and comfortable berth; previous experience not necessary; pleasant London suburb. State salary required and when free, 101/18, Office of this Paper.

LOCUM, qualified, wanted (immediately); please give references and full particulars, Dunn, 10 Horseley Fields, Wolverhampton.

LOCUM Dispenser required immediately after Easter; must be competent. Apply, stating terms and copy of testimonials, to Chas. Evans, 17 York Place, Brighton.

MANAGER wanted (immediately) for good-class Pharmacy in S.W. suburb; moderate salary; comfortable berth; unfurnished rooms optional. Apply "R. J." (98/28), Office of this Paper.

MANAGER (at once); knowledge Photography; one whole day holiday, also Thursday 1-6 p.m.; no Sunday duty. Apply Long, 197 Lower Clapton Road, N.E.

PHARMACIST required for Branch Manager; must be intelligent and enterprising; commencing salary £260 per annum and commission. Apply "Progress" (101/9), Office of this Paper.

QUALIFIED Assistant wanted (at once); easy hours, no Sunday or evening duty; elderly preferred; work not arduous but qualification necessary; permanency; country town, Devonshire. State terms and salary in first letter to Haynes, Chemist, Honiton.

QUALIFIED Branch Manager for lock-up shop near Manchester; working-class district. Please give full particulars and state salary required to 97/5, Office of this Paper.

QUALIFIED Assistant wanted as Dispenser; accustomed to high-class Dispensing and Retail. Apply, with full particulars, references, and salary required, to Brady & Martin, Ltd., 29 Mosley Street, Newcastle-on-Tyne.

QUALIFIED, single, young man required; one who has had good experience and is anxious to make progress; Midland district; excellent opening. Apply "H. L." (98/130), Office of this Paper.

QUALIFIED Assistant (outdoors), elderly man not objected to, for Mixed country Retail, N.H.I. Dispensing, and Agricultural business; easy hours, half-day weekly, no Sunday duty; small country town, Midlands; very pleasant and healthy. Apply, with full particulars, stating age, references, and salary required, 99/33, Office of this Paper.

QUALIFIED Manager required for branch business, house attached. Apply with usual particulars to Ekins & Fisher, Market Place, St. Albans.

QUALIFIED Assistant (lady or gentleman) for Counter and N.H.I.; working-class district; hours 9 a.m. to 7.30, Thursdays 1, no Sunday duty. State salary and full particulars to Horn, Chemist, Goldthorpe, near Rotherham.

QUALIFIED Assistant (elderly gentleman or invalid soldier) wanted in a pleasant district a few miles from London; easy hours; duties arranged to suit; method of living as desired; no Sunday duty; weekly half-holiday; personal interview desired. Fullest particulars to 101/25, Office of this Paper.

QUALIFIED gentleman about 30; must be good Dispenser. Send terms (outdoors) and recent references to Pinch & Co., Bath.

REQUIRED for May 5th, unqualified Assistant, outdoors, unmarried, for quick middle-class business; state age, height, salary required, send photo if possible, and give references in first letter; applications declined if unanswered within three days. A. Middleton & Son, Chemists, Nottingham.

SENIOR (qualified) and Junior required in good middle-class and Photo business; no heavy trade; view to partnership entertained with Senior; outdoors. Harold Mitchell, 56 Woodgrange Road, Forest Gate, E. 7.

SOUTHALLS, Birmingham, require an experienced Junior Assistant in their Dispensing Department. Apply, with full particulars and salary required, to 17 Bull Street, Birmingham.

UNQUALIFIED Assistant wanted for good-class country Retail business (outdoors); no Sunday duty; comfortable berth for energetic or reliable man. Please state experience, salary, and particulars to Bates & Hunt, Wellington, Salop.

UNQUALIFIED, for Light Retail and Insurance Dispensing; hours 8.30 to 8 (Wednesdays 1 o'clock). Sunday duty one hour only every third Sunday; three other Assistants kept. Apply, stating age, experience, etc., to John Day & Sons, Laisterdyke, Bradford.

UNQUALIFIED Assistant for country Drug Stores; good prospects for smart man able to develop business. Apply, with full particulars, wages required, to "Compass," c/o B. North & Co., Wholesale Druggists, 22/4 St. James's Street, Nottingham.

UNQUALIFIED Assistant wanted for working-class neighbourhood in Liverpool; National Insurance Dispensing and lively Counter trade. Apply 101/22, Office of this Paper.

WANTED, early in May, qualified Manager of good appearance and address; single. Apply, with two references, salary required, etc., easy hours, Frank Edwards, 46 Cardiff Road, Llandaff.

WANTED, Junior Assistant and Stockkeeper. Apply the Manager, Heppell's, Chemists, Hotel Cecil Buildings, Strand.

WANTED, qualified Manager; good-class country business; view to succession. Apply Mrs. J. B. Harris, 67 South Street, Southmolton, N. Devon.

WANTED (at once), middle-aged gentleman for country village Stores with knowledge of Grocery; permanency. State salary, etc., and other particulars, to Mr. T. Crowson, North End, Yelney, Grimsby, Lincs.

WANTED, Assistant, unqualified, for brisk Retail. Usual particulars and salary required to 4 Mount Ephraim Lane, S.W. 16.

WANTED, capable Assistant for Dispensing business; able to take charge. Full particulars in application of age, experience, and salary required to Thomas Bros., Bath Road, Cheltenham.

WANTED, from May 1st, 1919, a qualified resident lady Dispenser at the Hertford County Hospital (64 beds, in-patients, out-patients, and panel patients); salary £50 per annum, with board and washing allowance. Further particulars from the Secretary.

WANTED (at once), a smart qualified Assistant, capable of Management. Also two reliable Assistants, 25 to 35, for Dispensing and quick Counter trade. Hours 8 to 8; Wednesdays at 1 o'clock; no Sunday duty; state age, height, salary required (outdoors), experience. W. H. Dixon & Sons, Ltd., East Grinstead.

WANTED, gentlemanly Junior Assistant in a high-class Dispensing business (Western district), for Manufacturing and Dispensing; must be well educated and served a regular apprenticeship; hours of business 8.30 to 6; could be arranged to suit student. Apply, giving full particulars of former engagements, salary expected (outdoors), etc., interview desired, 100/22, Office of this Paper.

WANTED, competent Assistant for good-class Retail and Dispensing, with Photographics; three or four months. Please give details of previous experience, age, height, and salary required to D. T. Evans, Chemist, Margate.

WANTED, qualified Assistant; young and active; outdoors; easy hours; no Sunday duty. Apply, with full particulars, stating age, references, and salary required, to E. J. Kitson, Worcester.

WANTED, competent Assistant; experienced in good-class Dispensing business. Apply, giving full particulars of experience and salary required (enclosing photo if possible), to Hall & King, West Cliff Pharmacy, Folkestone.

YOUNG male Assistant; outdoors; one just finished apprenticeship might suit; moderate wages to begin; will push suitable man; permanency; 55 hours weekly; no Sunday or Bank Holiday duty; close for dinner; Thursday half-holiday. State wages and full particulars, Coleman, 51 Cauldwell Street, Bedford.

WHOLESALE.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

ASSISTANT required by a firm of Manufacturing Chemists (Minor qualification), to supervise the working of a light section of a Department and the Stores required for same. Apply, stating age, experience, and salary required, to 117/47, Office of this Paper.

CHEMIST required by Wholesale House in a Lancashire city; must have had extensive experience in the Wholesale Drug trade and be well up in the manufacture of Galenicals and other Preparations sold by Wholesale Druggists; one desiring a permanency preferred. Apply, stating experience, age, and salary required, 102/16, Office of this Paper.

CHEMISTS' Proprietary Articles.—Wanted by firm of Wholesale Chemists, a Manager for the Packed Goods Department; able to introduce new lines; good organiser essential; applicant must state age, experience, and salary required. "Apex" (115/56), Office of this Paper.

CITRATE Room Assistant wanted. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

COMPRESSED Tablets and Pills.—Assistant with some experience required; used to Colton machines. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

COMPRESSED Tablets and Medicated Lozenges.—Provincial Wholesale House require a man well up in the Manufacture of Compressed Tablets and also Medicated Lozenges; must have had considerable experience; please give particulars of previous experience, age, and salary required. Apply 102/160, Office of this Paper.

FOREMAN Goods Receiver, with knowledge of Stockkeeping; age about 35; wages £3 7*s.* 6*d.* Apply, by letter only, to "W. P.," 23 Woronrow Road, St. John's Wood, London, N.W.

LABORATORY Hand required; used to Press and Tincture work. Apply to Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

LABORATORY Hand for Toilet-powder; North London; permanency. Apply 116/44, Office of this Paper.

LABORATORY hand required; one used to manufacture Galenicals; good prospects. State full experience and wages required, 117/11, Office of this Paper.

LABORATORY.—Wanted, a man for Wholesale Druggists' Steam Laboratory in the Provinces; must be well up in the manufacture of Galenicals by up-to-date processes; permanent position for suitable man; please state previous experience, age, and wages required. Apply 102/161, Office of this Paper.

LANOLIN.—Chemist required who can manufacture Lanolin. State particulars and salary required, in confidence, to 101/10, Office of this Paper.

PERFUMERY and Toilet Preparations.—Forewoman required, experienced, to control small number of girls; North London. Apply, with full particulars, to 115/49, Office of this Paper.

PILL Maker wanted by progressive Wholesale house in the North of England; first-class experience essential. Apply, giving full particulars of wages required, etc., to 113/620, Office of this Paper.

PILL Maker wanted; must be experienced and used to handling machinery. State previous employment and wages required, "M. D." (101/42), Office of this Paper.

PROVINCIAL House wants competent man or woman to take charge of their Wet Department; must have had good experience in the same capacity, but need not necessarily be qualified. Apply, giving full particulars of experience, references, and salary asked, to 93/4, Office of this Paper.

PROVINCIAL firm of Wholesale Druggists require a lady to manage their Packed Goods Department; must have had previous experience, and be a good disciplinarian and organiser. Apply, stating experience, references, and salary asked, to 98/27, Office of this Paper.

QUALIFIED Assistant required for Poison Room on Wet Floor. Apply, giving age, salary required, previous experience, to Southall Bros. & Barclay, Ltd., Wholesale Druggists, Birmingham.

REPRESENTATIVE for the London area wanted by well-known firm manufacturing pure chemicals (Pharmaceut. and Photog.); must have experience, and be personally acquainted with Wholesale buyers and export channels; state full particulars as to experience, salary required, etc. Apply 91/36, Office of this Paper.

REPRESENTATIVE, preferably young Pharm.-Chemist, required by well-known firm manufacturing high-class specialities, to introduce same to medical profession in Manchester and neighbourhood (50 miles radius); state full particulars as regards experience, etc. Apply 97/17, Office of this Paper.

REPRESENTATIVE required by Wholesale Chemists and Drysalters for East Cumberland and Westmorland; country journeys; Chemist knowledge desirable but qualification not essential; preference to one knowing the ground and with connection amongst Grocers and Confectioners; state experience and salary required. Apply 99/34, Office of this Paper.

REPRESENTATIVE required, with good connection, for London and district; part salary and commission. Apply "L. C." (100/27), Office of this Paper.

REPRESENTATIVE Wanted.—An American Import and Export Drug House, most prominent in its line, strong financially, desires Representative well and favourably known in Manufacturing and Jobbing Drug circles who can sell American Drugs and act as Purchasing Agent for us in the London Markets; applicant must be capable, well posted, and big enough to earn several thousand dollars per annum. Address, stating experience, qualifications, and references (confidential), 102/15, Office of this Paper.

SMART Traveller (either sex), calling upon high-class Chemists London and district, for Toilet Specialities, Creams, Shampoos, etc.; splendid selling lines; good commission to right person. Apply 99/23, Office of this Paper.

STEAM Laboratory.—Assistant required; man accustomed to handling Ointment, Galenicals etc., in large quantities. Apply, giving full particulars of experience, wages required, etc., to 113/62, Office of this Paper.

STOREKEEPER, for Essential Oil Department, wanted by London Manufacturing Chemists. Write details of experience, age, and salary required to Mr. Storey, 62 Bank Chambers, W.C. 2.

SURGICAL Instruments and Hospital Sundries.—Experienced man required to look out and despatch post orders. Apply Edwards, Surgical Manufacturing Co., 85 Mortimer Street, W. 1.

TABLET Maker required; fully experienced in all branches; capable of taking sole charge; splendid prospects for energetic man; applications will be treated in strictest confidence. Write, with full particulars, to 111/26, Office of this Paper.

TABLET Maker.—Smart, up-to-date, experienced man required in Tablet Department of large Wholesale House in the provinces; practical maker accustomed to modern machinery. Apply, giving full particulars, wages, etc., to 113/621, Office of this Paper.

TRAVELLER wanted to Represent an old-established firm of Druggists' Sundriesmen in Pembroke, Cardigan, Carmarthen, Radnor, Glamorgan; must have had experience in the line and a connection; liberal commission given. Apply 97/19, Office of this Paper.

TRAVELLER wanted to Represent an old-established firm of Druggists' Sundriesmen, in Cheshire, Salop, Worcestershire, Hereford, and North Wales; must have had experience in the line and a connection; liberal commission given. Apply 97/190, Office of this Paper.

TRAVELLERS wanted by Manufacturing Perfumers in West End of London, to sell special lines on commission; good prospects; preference given to man with connection. Apply 100/28, Office of this Paper.

WANTED, Commercial Chemist for Margarine Factory; full knowledge of manufacturing. Reply "Country," Box 197, T. B. Browne's Advertising Offices, 163 Queen Victoria Street, E.C. 4.

WANTED, an experienced Bottler and Wrapper for Patent Medicine trade for month or two. State age and wages required, 64/15, Office of this Paper.

WET Counter Assistants wanted by Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.

SITUATIONS OPEN.

3s. 6d. for 50 words or less; 6d. for every 10 words or less beyond, prepaid.

(Colonial, Indian and Foreign.)

BRITISH EAST AFRICA.—Wanted, qualified Assistant, single, under 30, with knowledge of Photography; Optical experience desirable, but not essential; second-class passage paid out; three years' agreement; commencing salary £25 per month. Apply, with full particulars of past experience, to "Zebra," o/o Tozer, Kemsley & Millbourn, Ltd., 84 Fenchurch Street, E.C.

FAR EAST.—One or two qualified Assistants; age 22 to 30; must have had good experience in first-class Retail business; good salary; passage paid out and home on a four or five years' agreement. Address "Export" (101/7), Office of this Paper.

INDIA.—Assistant, qualified preferred, required for a high-class British Firm of Chemists in Calcutta; 4 years' agreement; passage paid out and home; monthly salary, 1st year Rs. 300, 2nd year Rs. 325, 3rd year Rs. 350, and 4th year Rs. 400. Apply, giving full particulars of experience, etc., to 88/6, Office of this Paper.

JAPAN.—Two qualified Assistants required for first-class Pharmacy in Yokohama; four years' agreement; salary £20 per month first year, increasing to £30; free furnished quarters with lighting and heating; passage paid out and home. Apply, with copies of testimonials and photograph, to M. H., Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

JAPAN.—Wanted (immediately), Junior Assistant, single, qualified, in first-class business at Kobe; easy hours; liberal salary; passage out and home. Send for full particulars, with photo, to M. H., Export Department, S. Maw, Son & Sons, Ltd., 7-12 Aldersgate Street, E.C. 1.

PARIS.—Wanted, in a first-class Pharmacy, a good Assistant Prescriber and Salesman. Write full particulars, enclosing photo (will be returned), to Dumont, 4 Woodside Lane, N. 12.

SINGAPORE, STRAITS SETTLEMENTS.—Wanted, qualified Assistant; three years' agreement; passage paid; healthy climate; salary first year £35 per month, second year £37 10s., third year £40; knowledge of Optics desirable though not essential. Apply to Marshall K. Watt, 28 Esslemont Avenue, Aberdeen.

SINGAPORE.—Wanted (immediately), qualified Assistant; young, single, and sound; passage paid out and home; three years' engagement; monthly salary of $250, $275, and $300 respectively (dollar equals 2s. 4d.); knowledge of Optics preferred, but not essential. Full particulars from J. W. Downie, 187 Gairbraid Street, Glasgow.

SOUTH AFRICA (RHODESIA).—Two Chemists' Assistants, Minor qualifications; single, young, thoroughly reliable; three years' engagement: average salary £27 10s. monthly, commencing on arrival; passage money out and home. Applications to Keep Brothers Ltd., Great Charles Street, Birmingham.

SITUATIONS WANTED.

1s. for 12 words or less; 6d. for every 10 words or less beyond, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **6d.**

[HOME.]

RETAIL.

A GOOD Dispenser and energetic, all-round Assistant; unqualified; well recommended; tall; abstainer; Bristol preferred; disengaged. "Dispenser," 2 Melrose Place, Clifton, Bristol.

AS Locum; London district; reasonable terms; efficient Chemist. Apply 23a Sinclair Gardens, Kensington.

AS Manager; qualified; 34; tall; abstainer; experienced. "Chemist," 54 Sefton Street, Southport.

AS qualified Manager; disengaged; capable and reliable; 20 years' experience; South Wales preferred. Apply Davies, Ty. Cwrdd, Llwynhendy, Llanelly.

AS Manager (qualified); first-class experience and references; salary £4 per week. Apply 102/22, Office of this Paper.

AS Manager, qualified, 43, experienced, good Salesman and Buyer, open to engagement (immediately); Locum or otherwise. Address Chemist, 13 Ashburton Road, N.S. Blackpool.

ASSISTANT, unqualified, 24, 5 ft. 11½ in., accustomed to high-class Dispensing, Retail, and Photographic business, requires post; in or near Birmingham preferred. Particulars to Guy, North Street, Ripon, Yorks.

ASSISTANT, unqualified, requires part-time employment in London; afternoons free from 2 to 5 Monday to Friday. Apply "F." (93/6), Office of this Paper.

ASSISTANT requires post; good Counter practice and Dispensing experience; Cardiff preferred. "G. E.," 15 Wellfield Road, Cardiff.

ASSISTANT; 25; unqualified; married; demobilised; disengaged; all-round experience; Photography; three years' London experience; 5 ft. 8 in.; London desired. Smith, 18 Winthorpe Road, Putney, S.W. 15.

ASSISTANT, unqualified, 25, single, desires engagement in good-class Dispensing business; good experience. Hours and salary to "Demobilised" (98/34), Office of this Paper.

ASSISTANT or Assistant Manager; unqualified; married; recently demobilised; previous own business; could take charge of branch; smart Salesman, Drugs, Sundries, and Perfumery, etc.; 10 years' good experience. "O. B.," 98 Amity Road, Reading.

ASSISTANT, unqualified, 22, disengaged, desires berth in good-class Pharmacy; good, all-round experience; abstainer; excellent references. Evans, 30 Marlborough Road, Cardiff.

ASSISTANT Manager or Locum; qualified; experienced London, country, Continent; fluent French; Photographics; demobilised; disengaged. Burrell, 39 Falmouth Road, London, S.E. 1.

ASSISTANT (Hall); Dispensing and Counter; excellent references; seaside preferred; disengaged. Apply 102/1, Office of this Paper.

ASSISTANTSHIP by about May 1st; time for study; thoroughly experienced Counter, Dispensing; London preferred, but not essential. "Cyrex," 170 Kennington Park Road, S.E. 11.

BOURNEMOUTH.—Mornings; reliable Dispenser; highest references. "Student," 1 Orchard Cottage, Orchard Street.

BRANCH Manager; qualified; married; abstainer; 17 years' all-round experience. Full particulars, hours, and salary, Hill, 3 Howard Terrace, Paignton.

CHEMIST, who has disposed of his business, is open to accept Locum engagement; disengaged May 12th. "Locum" (115/10), Office of this Paper.

CHEMIST'S Assistant; 30; West-End experience; unqualified; recently disengaged; Locum or permanency. Write to Mr. M. G. Birch, 16 Melrose Gardens, Hammersmith, W. 6.

CLERICAL Work of any kind; evenings or daytime; terms moderate. Write "F. G." (100/38), Office of this Paper.

DEMOBILISED; unqualified; 24; six years' good experience; studying for Minor in own time; small salary accepted for berth where good knowledge can be obtained; French spoken. "M. T.," 1 Lismore Road, N.W. 5.

DEMOBILISED, unqualified, requires Branch Management; married, age 45, height 5 ft. 11 in.; good Extractor, Prescriber; Liverpool district preferred; reliable. Apply 97/1, Office of this Paper.

DISENGAGED; desires Locum work; City, West-End; qualified; experienced; good references. Apply "Spero" (101/5), Office of this Paper.

DISENGAGED shortly, Locum or Manager. Lynn, 2 Lodge, Sinclair Mansions, W. 12.

DISPENSER (Army qualification), 49, desires post as Dispenser to Doctor or Chemist in London; N. or N.W. preferred; 20 years' experience in Military Hospitals; late Sergeant-Major R.A.M.C. Apply, stating salary, etc., Ward 37, Coleraine Road, Hornsey, N. 8.

DISPENSER, lady (Hall), Shorthand-typing, Bookkeeping, five years' experience, requires post in Hospital or with Doctor in or near London. Apply 97/16, Office of this Paper.

DISPENSER; 44; disengaged; married; permanency; 27 years' experience; Bookkeeper, Extractor. Strutt, 2 London Road, Hailsham.

DISPENSER; experienced; qualified; disengaged; London preferred; Locum or permanent. Apply 100/17, Office of this Paper.

EVENINGS.—Dispenser, with evenings free, desires employment from 6 p.m.; could also do Sunday duty. Please state terms, London only, preferably W. or S.W. Apply 102/14, Office of this Paper.

EVENINGS, from about 6.30; S.W. or W. district. "Statim" (101/17), Office of this Paper.

EXPERIENCED, qualified Pharmacist desires permanent post as Manager. Apply 101/34, Office of this Paper.

GOOD Dispenser or Counterman; unqualified; demobilised; 40, married; South Coast or London preferred; state salary. Edwards, Sarnam Mansion, Bank Yfelin, near Carmarthen, S. Wales.

IPSWICH or Bristol District.—Dispenser (male) seeks post, whole or part time; Apothecaries' Hall; trained and late staff Birmingham General Hospital; five years' experience. Apply c/o Rev. James Mills, 363 Shobnall Street, Burton-on-Trent.

JUNIOR in good-class Dispensing business where others are kept; age 19; smart Dispenser and Counterman; disengaged. Evans, c/o Mr. Jones, Pharmaceutical Chemist, Bridgend, Glam.

LADY Dispenser (Hall); Doctor or Institution; Books, Dressings. Apply 96/31, Office of this Paper.

LADY Dispenser (Hall); four years' experience; disengaged; kindly state hours, salary. "Lang" (95/24), Office of this Paper.

LADY Dispenser (Hall) requires post; three years' experience with Chemist; Midlands preferred; Chemist's daughter. Apply 98/8, Office of this Paper.

LADY Dispenser (Hall), 25, desires post in high-class Pharmacy or Hospital, in or near Manchester; Princess Christian Nurse with a real first-rate private Dispensing and Counter experience; capable of taking charge when necessary; good address; salary £2 15s. Apply 99/18, Office of this Paper.

LADY requires post; Photography, Developing, Printing, and Enlarging; three years' experience with Chemist. Particulars, Martin, 4 Crouch Street, Banbury.

LADY Dispenser (Hall) desires post; 2 years' experience; Chemist or Doctor; disengaged. Apply 101/12, Office of this Paper.

LOCUM; good appearance and address; accurate, reliable; accustomed to high-class trade; a few vacant dates May to October. Apply, stating salary offered, to "Exactly" (96/40), Office of this Paper.

LOCUM; over 30 years' wide experience; qualified; few dates open May, June, and onwards. M. Smith, 56 Woodgrange Road, Forest Gate, E. 7.

LOCUM, M.P.S., demobilised, abstainer, active, accustomed to high-class and middle-class businesses, is now open for engagements; best references. Apply (at once) 97/10, Office of this Paper.

LOCUM; London; qualified; 39; Saturday after two, all Sunday. Apply "Rex" (95/19), Office of this Paper.

LOCUM; unqualified; 22; free from Easter for two months; London district preferred. Apply David L. Wilson, 3 Elizabeth Villas, Walpole Road, South Woodford, N.E.

LOCUM; 35; qualified; highly capable and experienced; unimpeachable references; few dates vacant. Apply 99/29, Office of this Paper.

LOCUM Tenens; disengaged April 12; experienced. "L. T.," 66 Neville Street, Cardiff.

LOCUM; Manager; Registered; highest references to date; Provinces preferred; wide experience; disengaged from May 10. "Chemist," 47 Ogilby Street, Woolwich, S.E.

LOCUM; age 43; abstainer; varied experience; free now, and open for summer bookings. Lane, 22 Peach Street, Wokingham, Berks.

LOCUM or Relief; disengaged; qualified; 20 years' West-End experience. Apply "Rhei" (100/21), Office of this Paper.

LOCUM or Temporary; qualified; 41; South Coast or healthy neighbourhood; capable; abstainer; married; highest references. Apply 101/24, Office of this Paper.

LOCUM; highest references; wide experience; London and provinces; well recommended. Brown, 74 West Hill, East Putney, S.W. 15.

LONDON.—Junior Assistant, 24, requires situation where two or more are kept. Full particulars to "X. Y. Z.," 8 New Broad Street, London, E.C. 2.

M.P.S., RECENTLY demobilised, ex-R.A.M.C. Dispenser, requires evening or morning duty at Hospital, Pharmacy, or Institute, London, for six months. Apply 87/2, Office of this Paper.

M.P.S., DISENGAGED, open for temporary or permanent engagement; excellent experience; active and reliable. W. Peacock, 54 Richmond Road, Abergavenny.

MANAGER, with view to purchase; good Prescriber and knowledge of Dentistry. Reply to "Dental," 82 Layard Road, Peckham, S.E. 15.

MANAGER; qualified; 35; good Dispensing experience, Photography; London district; state salary. Apply 97/2, Office of this Paper.

MANAGER, Drug Stores, unqualified, married, 31, desires permanency; reliable; abstainer; active worker; 11 years' experience; best references; disengaged. State hours and salary to 99/6, Office of this Paper.

MANAGER or Assistant (28) desires comfortable permanency; experienced; excellent references; unregistered; please state salary, hours, etc. Apply 99/20, Office of this Paper.

MANAGER; unqualified; 40; 24 years' all-round experience; recently demobilised; quick Cash Drug Store business, with view to ultimate purchase preferred, but not essential; good refs. Please send full particulars to "Demobilised," 58 Charlton Road, Harlesden, N.W. 10.

MANAGER qualified, 17 years' experience, reliable, desires permanency; 45; married. Apply 102/30, Office of this Paper.

PART-TIME; London; Minor student; experienced. Apply 99/12, Office of this Paper.

PHARMACIST, 38, present position 12 years, desires Managership of a reliable Pharmacy; turnover about £1,500, with good prospect of steady increase; view to early succession; excellent references. Apply "Progressive" (99/9), Office of this Paper.

PHARMACIST; 40; Scot; demobilised; late Sergeant R.A.M.C.; Managership or Locum. Apply 100/19, Office of this Paper.

QUALIFIED; 29; good references; experienced; successful Manager; moderate salary; disengaged. "Statim," 20 Stanley Street, Southsea.

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